

IVOA Full Meeting 9  
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29 Jan 2004: 09.30 - 17.00 CET

Notes: NAW

Draft 29 Jan 2004

Revised 03 Feb 2004

Present:

Mark Allen	<allen@astro.u-strasbg.fr>	MA	AVO
David Barnes	<barnesd@unimelb.edu.au>	DB	Aus-VO
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Chenzhou Cui	<ccz@bao.ac.cn>	CC	China-VO
Markus Dolensky	<mdolensk@eso.org>	MD	AVO
Francoise Genova	<genova@astro.u-strasbg.fr>	FG	F-VO
Bob Hanisch	<hanisch@stsci.edu>	BH	NVO
Gerard Lemson	<gerard.lemson@mpe.mpg.de>	GL	GAVO
Marco Leoni	<mleoni@eso.org>	ML	AVO
Tony Linde	<tol@star.le.ac.uk>	TL	AstroGrid
Mireille Louys	<Mireille.Louys@ensps.u-strasbg.fr>	ML	F-VO
Jonathan McDowell	<jcm@cfa.harvard.edu>	JM	NVO
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Apologies:

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David Schade	<David.Schade@nrc.ca>	DS	CVO

Glossary

AstroGrid - UK VO initiative	<a href="http://www.astrogrid.org">www.astrogrid.org</a>
Aus-VO - Australian Virtual Observatory	<a href="http://www.aus-vo.org">www.aus-vo.org</a>
AVO - Astrophysical Virtual Observatory	<a href="http://www.euro-vo.org">www.euro-vo.org</a>
AVO - AVO Science Working Group	
CDS - Centre de Données Astronomiques de Strasbourg	<a href="http://www.cdsweb.u-strasbg.fr">www.cdsweb.u-strasbg.fr</a>
China-VO - Chinese Virtual Observatory	<a href="http://www.china-vo.org">www.china-vo.org</a>
CVO - Canadian Virtual Observatory	
DRACO - The Italian Datagrid for Research in Astrophysics and Coordination with the Virtual Observatory	
F-VO - French VO	
GAVO - German Virtual Observatory	<a href="http://www.g-vo.org">www.g-vo.org</a>
GSC - UK Grid Steering Committee	
VO-India - Indian Virtual Observatory	
JVO - Japanese Virtual Observatory	<a href="http://jvo.nao.ac.jp/index-e.html">jvo.nao.ac.jp/index-e.html</a>
KVO - Korean Virtual Observatory	<a href="http://kvo.kao.re.kr">kvo.kao.re.kr</a>
NVO - National Virtual Observatory	<a href="http://www.us-vo.org">www.us-vo.org</a>
PDS - AAS Division of Planetary Sciences	

IVOA - International Virtual Observatory Alliance

0. Review of open action items from previous meetings and their new status

ACTION FM4-7.3.2 DS/PQ: produce a position paper on issues related to data quality and data provenance.

ONGOING: DS has produced and circulated a draft of this paper. PQ will be continuing this in the near future. All input welcome.

ACTION TM6-5 BH: to organise a joint meeting (linked with demos - perhaps at the July IAU) with the solar community to look at collaboration possibilities. Need to address whether there are benefits in having common standards.

CLOSED: BH reported that there have been no further actions since July 2003. The feeling is that it is sensible to continue discussions with the Solar groups.

NW reported that AG2 will continue to include SSVO activities through to end 2007.

FG reported that IAU Comm 10 will include Solar VO activities, and this will need to be considered in the context of the IAU Comm 5 Data VO WG.

MO: the Japanese solar and radio groups are beginning to interact with the JVO and MO will continue to pursue these links.

FG/ FP - links are forming with the solar groups in F and I.

ACTION FM7-4.0 ALL: comments on the participation paper to PQ with aim to agree document at the next IVOA meeting.

CLOSED: PQ - The document on circulation was submitted, and no significant comments were received. It was AGREED that this document be made available on the IVOA web site.

NEW ACTION FM9-0 ML - add doc to the 'about ivoa' section of the web site

ACTION FM7-4.1A PQ/ES/DS: develop a paper that defines what interfacing to a VO means from the point of view of a large project. Cases studies to include OWL, LOFAR etc.

ONGOING: PQ had started discussions with a number of large projects such as ALMA. DB has also provided input from Australia. PQ will produce a draft fro the May interop meeting.

ACTION FM7-6 FG: to present draft VO WG terms of reference (charter) at next IVOA meeting

CLOSED: FG reported that the outline charter is now ready with suggested members. Discussed in a later section.

ACTION FM7-6.1: ALL: provide FG with suggestions as to who should be representatives on the IAU VO WG. Deadline 8 August 2003.

CLOSED: see later

ACTION FM7-13.2 BH: organise IVOA Exec meeting at the end of this AAS meeting - thus 8 Jan (pm) plus 9 Jan 2004.

CLOSED: meeting transferred to ESO end Jan 2004.

ACTION FM7- Roy Williams /RN/NW/PQ - look into setting up video conferencing, perhaps based on a video-node at ESO.

CLOSED: TL reported that tests between AstroGrid and NVO using VRVS have been fairly successful.

ACTION FM8-0A TL to circulate link to definitive IVOA draft license.

ONGOING: TL reported that the favoured licence is now the CPL. TL will be investigating this further.

ACTION FM8-0B PQ - all VO projects should get back to PQ by Oct 10 2003 as to whether they would support a full June 2004 VO conference, or whether there should be a smaller scale input to the VO session at the SPIE.

CLOSED: Agreed on no June 2004 VO conference. Instead, a VO session as part of the Glasgow SPIE.

SPIE meeting is 21 June to 25 June, with the IT aspects of the programme are the 24+25 June. Two full sessions (1/2 day) will be devoted to the VO. The agenda will be made available soon. The IVOA paper will be presented by PQ - he will provide a draft by mid Feb 2004.

Other meetings for 2004 to be discussed later in this meeting.

ACTION TM8-2.13A MD/ Marco Leoni: set up a IVOA meetings calendar page on the IVOA web site

CLOSED: updated

ACTION TM8-2.13B MD/ Marco Leoni: set up a IVOA publications page on the IVOA web site.

CLOSED: updated

ACTION TM8-5 ALL - advise NAW of any upcoming VO related meetings - for inclusion in the IVOA calender.

CLOSED: this is a continuing action

ACTION TM8-5.1 PQ: Propose dates, locations for 2004 InterOp meetings.

CLOSED: Meetings for 2004 to be discussed during this meeting. Spring meeting will be in the US, Autumn meeting in India.

Calendar for 2004/5 discussed later in the meeting.

## 1. Roll Call

The participants - as listed above - introduced themselves.

PQ: remarked that this is an important year:

- working group activities
- take up of VO by the data providers
- review focus of the VO
  - choices on technical choices
- first science starting to appear
- opportunities provided by external events (e.g. SM4 for HST)

### 1.1 Previous minutes.

Notes from telecon 2003-09-29 - at

<http://www.ivoa.net/internal/IVOA/IvoaRepMin/ivoa-tm8-20030929.pdf> -  
AGREED

## 2. Reports from the VO Projects

Received reports are available online at:

<http://www.ivoa.net/twiki/bin/view/IVOA/IvoaExecMeetingFM8>

### 2.1 Astrogrid

NW reported that funding secured for the period through end 2007 to deploy the Astrogrid infrastructure and system across the UK. The focus will move to ensuring science use of the system over the next year.

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-astrogrid.txt>

### 2.2. Aus-VO

DB reported that funding continues to be sought to secure the longer term viability of the project. (Currently funding is on a year by year basis - outcome of current bids is not yet known).

Aus-VO may deploy AstroGrid infrastructure to underpin the Aus-VO. Theory activities increasing in importance.

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-aus-vo.txt>

### 2.3 AVO

PQ: Funding initiatives continue through the FP6 programme. The Euro-VO will formerly commence later in 2004 with the signing of a MOU between the constituent partners. Effort will be made available within ESO to initiate the VO-Facility Centre component of the Euro-VO. An AstroGrid led proposal with partners from ESO, France and Italy is being formulated in response to the march EU call to provide resource for the VO-Technology centre component of the Euro-VO.

#### 2.4 China-VO

CC: technical activities continue. The Chinese Ministry of Science recognises the value of the China-VO activities, and funding opportunities look reasonable in the coming few years,

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-china-vo.txt>

#### 2.5 CVO

A report was submitted by David Schade and is available at:

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-cvo.pdf>

#### 2.6 DRACO

FP: funding through the Italian Data Grid programme begun Nov 2003. This allows some astronomical VO activities. Additional resource is required to enable full integration of Italian astronomical data resources into their VO. The DRACO vision is to begin with Frascati space data and TNG ground based data (Trieste) fully available through VO interfaces in one year. Of order 8 FTE's will be active in DRACO from 2004.

#### 2.7 France-VO

FG: an action specific is funding VO activities in France. This will enable interaction between the national data groups. Specific funding will fund VO orientated activities.

The science committee of F-VO is now formed, representing the broad range of science strands in France. A number of national meetings have occurred (e.g. theoretical modelling) where VO interfaces have been discussed.

#### 2.8 GAVO

WV: currently half way through their current programme. A new proposal is required later this year. Currently 3 FTE's employed through GAVO. Focus is publication of full ROSAT data products. Experience gained in publishing catalogue data. Prototyping a probabilistic cross matcher - to aid in X-ray source identification - in the context of the Class-X NVO programme.

#### 2.9 Hungary-VO

IC: organisation begun in 2003, joining the IVOA in Dec 2003. HVO is composed of a number of groups in the country, Budapest having significant links with Johns Hopkins. Funding comes from a number of sources. Main activities concern the setting up and internationalisation (Hungarian translations) of data set mirrors including SDSS, 2MASS. A spectrum and filter service has been implemented as demonstrated at the ADASS in Oct 2003. A photometric redshift service is being developed. Discussions are underway with the Hungarian Grid community to use their compute resources.

Some funding comes to support outreach, thus science projects for Schools are being developed by the HVO.

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-hvo.txt>

#### 2.10 JVO

MO: Funding status - two proposals submitted to the Government, one of which will be approved soon, to ensure a further two years funding.

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-jvo.txt>

#### 2.11 NVO

BH: Much work has been occurring in various IVOA working groups. The NVO demonstrated a 2003 demo at SC2003.

NVO are organising a summer school in Aspen 2004. Focus will be on post-docs and post-grads, who could then become VO advocates. The course will be aimed at ~40 young researchers. Two days of lecture and demonstrations, two days of usage of VO services. Experience of building web services etc will be an advantage. A public announcement will be made in the next month or two after funding is fully secured.

The last NVO annual review, Dec 2003, was positive. The NVO's international role and involvement in setting standards were highlighted. The review will recommend an NVO focus on deploying a robust operational system.

The full quarterly report of the NVO is available.

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-nvo.txt>

#### 2.12 RVO

The RVO would support the initiation of a Scientific Applications WG. A full report on RVO activities was submitted by Oleg Malkov at:

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-rvo.txt>

#### 2.13 General Comments

PQ noted that a verbal report had been received from the India-VO. Possible meetings of the IVOA later in 2004 in India would be discussed in section 9.

### 3. Working Group Status Report

PQ: A brief review of the working groups - reports available online.

PQ: noted that drafts of WG activities should be uploaded to the document draft section of the IVOA Wiki. Additionally agreed IVOA standard documents are not centrally located on the Wiki.

PQ: noted that interactions between the WG's need to be assessed, and where there are interface issues, these should be raised for discussion.

The process document is at

<http://www.ivoa.net/Documents/REC/DocStandard/REC-DocumentStandards-20031024.html>

ACTION FM9-3A ML and WG Chairs: ensure full availability of IVOA WG drafts and agreed standards on the IVOA wiki and web site.

ACTION FM9-3B WG Chairs: provide PQ (by end Feb 2004) with an update of timetable for document and std development timelines.

#### 3.1 Content Description (UCD)

FG: In Strasbourg (Oct 2003) there was a discussion on th UCD 2.0 proposal. A revised proposal has been circulated within the UCD steering committee early Jan 2004. Discussion will go forward within the UCD WG soon.

ACTION FM9-3.1 RW - provide and upload UCD report to ML.

#### 3.2 Data Access Layer

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-dal-wg.txt>

It was AGREED that a v0.9 of the DAL-SSA standard was required by 1 Apr 2004 as this will be required before the May InterOp meeting and e.g. the NVO for their Aspen Summer School 2004.

ACTION FM9-3.2A Doug Tody: progress the DAL-SSA standard to v0.9 (thus at a level implementable against) by 1 Apr 2004.

It was AGREED that v2 of DAL-SIA can wait until after SSA is progressed to v0.9, but the v2 SIA is required as soon as possible after the work on v0.9/v1.0 of SSA.

#### 3.3 Data Modelling

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-dm-wg.txt>

PQ noted that the Data Model area is closely related to a number of other areas, and that the interdependencies need to be clearly understood. The Data Model concept must be fully developed in 2004.

JM. there has been significant WG activity since the Oct 2003 Strasbourg meeting.

Priorities:

- a DM to support the SSA
- 2 level robust DM - observation and quality

Post Strasbourg Oct 2003 mailing list activity failed to reach consensus on a DM. Subsequently a smaller group has developed working drafts, which will appear as 0.5 working drafts for wider discussion on the DM mailing lists.

The new focus on demos which integrate tools is helpful to the DM WG as these define requirements when passing information between one tool to another.

There are strong connections to the UCD WG. UCDs describe the semantics of the elements in the DM.

Little interaction to date with the VOQL WG - but this is now needed.

The DM/Registry interface is developing. DM will use the registry model for curation issues. Additionally coverage is being addressed.

TL: the DM is core to many areas, and thus all other WGs should be aware of the DM std evolution.

ACTION: FM9-3.3A JM: v0.9 DM std is required by 1 May 2004

ACTION: FM9-3.3B WG Chairs: understand their WG area interactions with the Data Model (this includes the PQ/DS effort on data quality).

### 3.4 Grid & Web Services

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-grid-wg.txt>

PQ reported on the Guy Rixon submission. Reference was also made to the report on Grid services prepared by GTR for the AVO.

### 3.5 Resource Registry

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-reg-wg.txt>

TL reported that a RFC for Resource Metadata V1.0 had been issued on 29 Jan 2004 (thus a one month period for comments).

Initial registry harvesting tests have been conducted between eg. AstroGrid and CDS.

TL noted that, with inclusion of the data model, a registry demo is feasible for 2004.

AS: it is important that prototype services are created that query (harvest) the registry.

ACTION FM9-3.5: issue registry harvesting std (schema) v0.9 by 1 Sep 2004.

### 3.6 Standards & Processes



<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-stds-wg.txt>

BH: The process for document approval has been promoted to an IVOA recommendation.

It was AGREED that this WG could adopt an 'idle state' now that the process is underway. If problems with the process occur, the Stds WG will re-activate.

ACTION FM9-3.6 BH: bring forward a recommendation and process to allow the accurate recording of authorship of stds documents.

### 3.7 VO Query Language

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-voql-wg.txt>

MO: The VOQL v0.5 working drafts were split two areas, ADQL and Sky Node.

There has been recent renewed activity in discussion concerning these drafts.

### 3.8 VOTable

<http://www.ivoa.net/internal/IVOA/IvoaExecMeetingFM9/ivoa-20040129-votable-wg.txt>

FG reported that new drafts have been submitted to the mailing list. A draft for RFC will be made available by end March 2004.

AS: the minimum requirement for VOTable is that ingestion into RDBM systems is required.

TL: VOTable should be viewed an exchange mechanism rather than a storage mechanism. Thus, through the data model, VOTable could be put back into a more appropriate VO std compliant format.

## 4 Review of IVOA January demos

### 4.1 AVO

PP: updated on the recent AVO demo. This was successfully demonstrated to the AVO Science Working Group, with the demo enabling new science. Details available at <http://www.euro-vo.org/twiki/bin/view/Avo/SwgMeeting04>

PP: noted that the AVO Jan 2004 demo would be shown at a number of upcoming meetings through 2004.

### 4.2 NVO

BH noted that NVO demos tend to focus on getting a message across to the AAS audience, so a two minute message. The AVO take a different approach, s smaller audience where the demo can go into more detail.

BH: Several new demos were presented at the AAS meeting in Atlanta

early Jan 2004. One of these showed registry harvesting. Another demonstrated data inventory.

The major new science demo allowed interface of theory data with observations (here focused on globular clusters). Demo available at <http://bima.astro.umd.edu/nemo/tvo/nvodemo2004/>

Access to spectral data through VO stds is available at <http://voservices.net/wave/>

AS: noted that JHU are making VO web-services available through <http://www.voservices.net>. This is a prototype service.

## 5 Review of IVOA Roadmap

PQ: Important to commit to a continuing yearly January demo cycle running for the next few years.

PQ: would like to see an updated and maintained schedule for standard release. Thus working group Chairs should now aid in redefining the IVOA roadmap, linking science and technical milestones.

ACTION: FM9-5 PQ, BH, NW: generate a revised Roadmap by end March 2004.

## 6 IVOA priorities for 2004 and 2005

AGREED immediate prioritisation (with target date for v0.9 stds to allow prototype implementations to be made against the std)

- Data Model            end Q2/2004
- Registry              end Q3/2004
- VOQL                 end Q3/2004 (for Sept InterOp)

In terms of VOQL - both ADQL and SkyNode stds are required.

31/3/04	1/5/04	30/9/04	Q1/05
DM - v0.5	DM v0.9	Reg: harvest v0.9	Demos
VOT - v1.1	DAL-SSA v0.9	DAL-SIA v1.9	--> v1.0's of
RoadMap	UCD v1.0	VOQL	the v0.9 stds
		- ADQL v0.9	
		- SkyNode v0.9	
	GWS - interface 0.5		

## 7 IVOA Working Groups: number, structure and missions

### 7.1 Systems Architecture Group

Proposed by AstroGrid.

Discussion on the need and form of a group to assess the current and future technical fit of the various WGs composing the IVOA activities.

NW: Technical lead and Chairs of the Working Groups (not interest groups) to form a 'one-off' team to assess the current and near future

fit and interrelationships between the IVOA Working Groups, and to recommend future architecture review mechanisms. This suggestion was AGREED.

ACTION: FM9-7.1A PQ: to contact Roy Williams and WG Chairs to initiate system architecture team to report back by 5/2004 Interop meeting.

ACTION: FM9-7.1B ML: - setup an architecture mailing list

## 7.2 IAA WG

Proposed by AstroGrid.

TL: This WG would assess issues relating to system mechanisms required for identity, authorisation and authentication. The meeting AGREED that these issues are becoming increasingly important for the IVOA to take a position on.

In discussion it was AGREED that the GWS WG should assess the issues in this area and decide whether this activity should be carried out within that WG or another is required.

ACTION FM9-7.2 Guy Rixon - GRID/WS WG should assess whether this is more appropriate for consideration in that WG. Plan discussions for May interop 2004.

## 7.3 Virtual Storage WG

Proposed by AstroGrid. The meeting AGREED that the issue of agreeing common standards to enable interchange between virtual storage spaces, such as AstroGrid's 'MySpace' and NVO's 'myDB' was an important emerging issue.

In discussion it was AGREED that the GWS WG should assess the issues in this area and decide whether this activity should be carried out within that WG or another WG is required.

ACTION FM9-7.3 Guy Rixon - GRID/WS WG should assess whether this is more appropriate for consideration in that WG. Plan discussions for May interop 2004.

## 7.4 Applications Interest Group

Proposed by the NVO and RVO.

BH: this group would assess astronomical services, issues related to deploying tools.

This was supported, Oleg Malkov, Mark Allen, Paolo Padovani, Nic Walton and others will participate.

ACTION: FM9-7.4 Tom McGlynn to form an Applications Interest Group.

## 7.5 Theory Interest Group

GL: theory requirements need to be identified to feed into the WG

processes.

This was supported. NW, DB, Dave de Young, Peter Teuben will participate.

ACTION: FM9-7.5 Gerard Lemson to form the Theory Interest Group.

## 7.6 Working of the Working Groups.

AGREED that Interests Groups are distinct from Working Groups in that IG's take a cross WG view to assess if there are areas that are not being addressed by the WG's (and perhaps propose new WG's) and put forward their demands to the per strand WG's.

PQ: The WG's are working well currently. The review of the IVOA roadmap and the System Architecture Group activities may result in a review of WG's later in the year.

## 8 External relationships

### 8.1 IAU

FG reported that the ADS will record the names of contributions made at the JD8 discussion at the IAU meeting in July 2003.

The IAU have accepted the proposal to set up a Commission 5 VO WG. FG has a draft charter prepared.

The proposed membership includes: Ron Ekers (IAU president), the science editors of A&A, ApJ, a representative from the FITS WG (Grosbel), representatives from the VO projects. President of Commission V, a representative of the Solar Commission X VO WG.

### 8.2 GGF

NW reported that 9-13 March 2004 would be the next GGF Astro-RG meeting.

Current mapping of GGF to IVOA working groups:

IVOA Working Group	GGF Group	Astro-RG area lead
Data Model	DFDL	G Rixon
Registry	SMF/RGIS	
Web/Grid Services	OGSA	
Data Access Layer	DAIS	G Rixon
UCD's	SEM	Roy Williams
(Pipelines)	GCE/WMF	
(Data preservation)	PA	R Moore
(Security)	SEC	
(Authorisation)	Auth-WG	
(Applications)	APPS	K Borne

Web site at <https://forge.gridforum.org/projects/astro-rg>

ACTION FM9-8.2 NW: contact WG Chairs re GGF Astro-RG interaction.

9 IVOA Calendar 2004/2005

Following meetings AGREED.

- 2004 Apr 6 : Next IVOA Telecon
- 2004 May 23-28 : Sheraton, Boston (number limit 100 people)
- 2004 Jun 21-25 : SPIE Astronomical Telescopes, Glasgow, UK  
(plus possible IVOA meeting)  
VO sessions 24+25 June 2004
- 2004 Jun 23 : Next IVOA Full meeting in Glasgow
- 2004 Sep 13-17 : NVO Aspen Summer School
- 2004 Sep 27- Oct 1 : Pune, India (include a 2 day regional meet)
- 2004 Oct 24-27 : ADASSXIV, Pasadena, USA
- 2004 Nov : Aus-VO meeting

ACTION FM9-9: PQ to circulate times for Apr 6 IVOA meeting.

ACTION FM9-9B: BH, NW, FG to form Organising Committee of

10. AOB

Idea of an IVOA sponsored school for Students

ACTION FM9-10 ALL: Send to PQ ideas for engaging PhD students in the context of the VO and the IVOA.

11. Action review

ACTION FM9-0 ML - add doc to the 'about ivoa' section of the web site

ACTION FM9-3A ML and WG Chairs: ensure full availability of IVOA WG drafts and agreed standards on the IVOA wiki and web site.

ACTION FM9-3B WG Chairs: provide PQ (by end Feb 2004) with an update of timetable for document and std development timelines.

ACTION FM9-3.1 RW - provide and upload UCD report to ML.

ACTION FM9-3.2A Doug Tody: progress the SSA std to v0.9 (thus implementable) by 1 Apr 2004.

ACTION: FM9-3.3A JM: v0.9 DM std is required by 1 May 2004

ACTION: FM9-3.3B WG Chairs: understand their WG area interactions with the Data Model (this includes the PQ/DS effort on data quality).

ACTION FM9-3.5: issue registry harvesting std (schema) v0.9 by 1 Sep 2004.

ACTION FM9-3.6 BH: bring forward a recommendation and process to allow the accurate recording of authorship of stds documents.

ACTION FM9-5 PQ, BH, NW: generate a revised Roadmap by end March 2004.

ACTION: FM9-7.1A PQ: to contact Roy Williams and WG Chairs to initiate

team to report back 5/2004 interop meeting

ACTION: FM9-7.1B: ML - setup an architecture mailing list

ACTION FM9-7.2 Guy Rixon - GRID/WS WG should assess whether this (IAA) is more appropriate for consideration in that WG. Plan discussions for May interop 2004.

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ACTION: FM9-7.4 Tom McGlynn to form an Applications Interest Group.

ACTION: FM9-7.5 Gerard Lemson to form the Theory Interest Group.

ACTION FM9-8.2 NW: contact WG Chairs re GGF Astro-RG interaction.

ACTION FM9-9: PQ to circulate times for Apr 6 IVOA meeting.

ACTION FM9-10 ALL: Send to PQ ideas for engaging PhD students in the context of the VO and the IVOA.

17:00 - Close

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