Applications WG Summary

New and Updated Apps Sessions

- Many contributions (17)
- Implementations of standards
- Accessing services via standards
- Standalone gui tools
- VO portals as entry point into VO
- Tools to help implement VO services

General observations

- Applications addressing use of large data objects
  - tables of 10^8 rows (~100 GB)
  - images of 2GB

- Innovation
  - user interfaces to registry and services
  - desktop access to VO information – Skymouse

- Scientific analysis and VO tools
  - developments within tools & doors open for interoperability

- Science Applications designed for VO and GRID environment - Montage

Apps Messaging

Twin track:

- Attack a limited, simpler problem first
- Restrict ourselves to messaging between apps on a single machine
- Ambitious schedule - get docs *and* software released within months
- Based on increments to PLASTIC->SAMP

- Continue discussions on more general messaging in parallel
- Experience from SAMP implementations and limitations will inform the debate

PLASTIC=>SAMP

Approx 12 changes
PLASTIC apps will interoperate with SAMP

Proposed changes to PLASTIC for 1.0

All of the following changes can be implemented as changes in the Hub without *requiring* that applications immediately switch to 1.0. That is, a Hub can support both v0.5 and v1.0 of the protocol. Some of the changes are more difficult (and inelegant) to implement and maintain backwards compatibility than others, as indicated in the comments.

Please see Appendix A of the IVOA Note on PLASTIC for definitions of terms used.

Category		API & Infrastructure							Messages				Transport		
Change	Do Nothing	Security	Refactor API	Message Ids	Generalise metadata	Drop Synch Messaging	Bootstrap method	Use mtypes	Message annotations	Message params untyped	Message params by name	Distinguish references	XMLRPC only	XMLRPC + optional	All optional
Proposer		MarkTaylor	JohnTaylor	MikeFitzpatrick	JohnTaylor	MikeFitzpatrick		MikeFitzpatrick	JohnTaylor	JohnTaylor	MarkTaylor	JohnTaylor		JohnTaylor	
						Votes ++/+(for) --/-(against) blank(neutral)									
JohnTaylor	-	+	++	+	+	+	--		++	++?	++?	+??		+	
MarkTaylor		+	+	+	+		-		++	+	+	-	+	-	--
AlasdairAllan		+				--	-			++			+		
BrianWalshe	-	+	+	+		++	-	-	+				+		
PierreFernique				+		+	--	+		++					
ThomasBoch		+	+	+			--	+			+		+	-	--
NoelWinstanley		+	+	+		--	--	-	+		+	-	+		--
IsaBarbarisi		+	+	+		+	--	+	+		+		+	-	--
MarcoComparato		+	+	+	+	+	--			+		-	+		
MikeFitzpatrick	--		++	+		+		++		+	+	-	-	++	-
LuigiPaioro	--	+	++	+	+	-		++			++		--	++	-
VivekanandaMoosani	--			+		-	--		+		+		-	+	-
CopyMeAndOverwrite	Do Nothing	Security	Refactor API	Message Ids	Generalise metadata	Drop Synch Messaging	Bootstrap method	Use mtypes	Message annotations	Message params untyped	Message params by name	Message URL params	XMLRPC only	XMLRPC + optional	All optional

Do Nothing

General observations cont.

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- Innovation
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What got decided?

(either for or against)

Decided

Probably decided

Deadlocked

Security	Split registration	Messag e Ids	App Metadata	Synch/As ynch	Bootstrap	mtypes	annotation s	param typing	named params	reference params	Transport

None <--- Detail still to be worked out --->All

Security	Split registration	Messag e Ids	App Metadata	Synch/As ynch	Bootstrap	mtypes	annotation s	param typing	named params	reference params	Transport

Plan

- Finish the change details over email
- Document in 3 parts:
  - Architecture
  - XML-RPC implementation
  - Messages
- Timeframe for doc AND impls: 3-6 months.