

Implementing SAMP in Aladin

Thomas Boch [CDS]



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



SAMPified Aladin



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



SAMPified Aladin

- Beta version of a SAMP compatible Aladin available:
 - <http://cdsweb.u-strasbg.fr/~boch/SAMP/Aladin.jar>
 - More robust version on Aladin official download page end of november



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



SAMPified Aladin

- Beta version of a SAMP compatible Aladin available:
 - <http://cdsweb.u-strasbg.fr/~boch/SAMP/Aladin.jar>
 - More robust version on Aladin official download page end of november
- Provides same features as PLASTICized Aladin
 - Load FITS images
 - Load VOTables
 - Select sources
 - Highlight source



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



SAMPified Aladin

image.load.fits

coord.pointAt.sky

table.load.votable

table.load.fits

table.highlight.row

table.select.rowList



SAMPified Aladin

- Beta version of a SAMP compatible Aladin available:
 - <http://cdsweb.u-strasbg.fr/~boch/SAMP/Aladin.jar>
 - More robust version on Aladin official download page end of november
- Provides same features as PLASTICized Aladin
 - Load FITS images
 - Load VOTables
 - Select sources
 - Highlight source
- Includes JSAMP hub developed by M.Taylor



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



SAMP from a developer's point of view (1/2)

- SAMP could be named *PLASTIC 2*
 - Evolution, not revolution
 - Concepts are similar:
 - Hub-based
 - Publish-subscribe architecture
 - Migrating from PLASTIC to SAMP is fairly easy
- SAMP is a **better** PLASTIC
 - Separation of registration, metadata declaration, declaration of supported messages
 - Named parameters allows easier extension of existing messages (optional parameters)
 - Different delivery patterns are clearly defined



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



SAMP from a developer's point of view (2/2)

- *samp.hub.ping* != *samp.app.ping*
- Useful tools when developing/debugging
 - JSAMP hub in verbose mode
 - JSAMP monitor
- Beware of the XML-RPC implementation you use
- XML-RPC examples in SAMP documentation are helpful



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



Supporting both SAMP and PLASTIC



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



Supporting both SAMP and PLASTIC

- Command-line flags enable SAMP or PLASTIC mode
 - *java -jar Aladin.jar [-samp|-plastic]*



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



Supporting both SAMP and PLASTIC

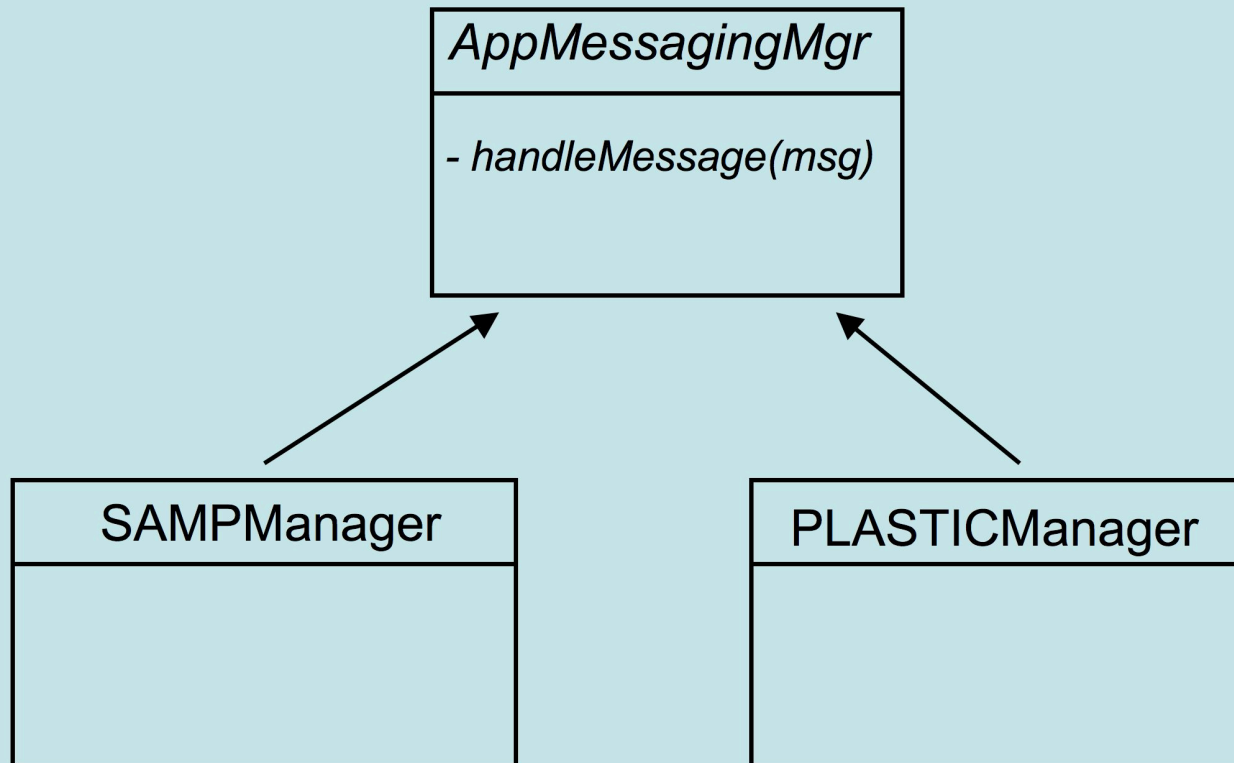
- Command-line flags enable SAMP or PLASTIC mode
 - *java -jar Aladin.jar [-samp|-plastic]*
- Require to refactor existing code
 - Abstract application messaging



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



Supporting both SAMP and PLASTIC



Supporting both SAMP and PLASTIC

- Command-line flags enable SAMP or PLASTIC mode
 - *java -jar Aladin.jar [-samp|-plastic]*
- Require to refactor existing code
 - Abstract application messaging
 - Abstract message definition



Supporting both SAMP and PLASTIC

- Command-line flags enable SAMP or PLASTIC mode
 - *java -jar Aladin.jar [-samp|-plastic]*
- Require to refactor existing code
 - Abstract application messaging
 - Abstract message definition
- Supporting SAMP and PLASTIC in the same application session is trickier
 - Translation at super-hub level ?



Demos



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



Demos

- SAMP is an opportunity to bridge the gap between astronomy data analysis packages and VO tools



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



Demos

- SAMP is an opportunity to bridge the gap between astronomy data analysis packages and VO tools
- Demo 1 : controlling Aladin from an IDL script



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008



Demos

- SAMP is an opportunity to bridge the gap between astronomy data analysis packages and VO tools
- Demo 1 : controlling Aladin from an IDL script
- Demo 2 : exposing PyRAF tasks through SAMP



T. Boch - IVOA Interop meeting -
Baltimore - 27-31 October 2008

