

NEXOF-RA

NESSI Open Framework – Reference Architecture

IST- FP7-216446



**Open Architecture Specification Process
Open Construction Cycle #1**

**Declarative UI Authoring Languages
Position Paper**

Contact: Xabier G. Kortazar (Fundación Tekniker) –
xkortazar@tekniker.es

Date of publication: October 3rd, 2008

Action Required by October 3rd, 2008

This work is licensed under the Creative Commons Attribution 3.0 License.

To view a copy of this license, visit <http://creativecommons.org/licenses/by/3.0/> or send a letter to Creative Commons, 171 Second Street, Suite 300, San Francisco, California, 94105, USA.

IMPORTANT DATES

This section describes the important dates for contributors to the open architecture specification process. When submitting a position paper it can be removed.

October 3, 2008	Submission of position paper to contact for a topic
October 20-21, 2008	Investigation teams kick-off, based on invitation
October 21, 2008 through January 16, 2009	Investigation team work, based on invitation

INSTRUCTIONS AND GUIDELINES

Please fill-in any section of text highlighted in yellow (like this). You may remove the highlight prior to submitting the position paper.

Any paragraph on a light blue background (like this one) may be removed prior to submitting the template.

A position paper should be dedicated to one topic of the call. It should describe in a few pages your background in the domain as well as a summary of your intended contribution. The position paper can be as long as required, but must contain a summary not exceeding 4 pages in case the document is longer.

A position paper submitted must not contain any confidential or proprietary information. The copyright for your contributions during the investigation team meeting and for the resulting document must allow the publication of the NEXOF Reference Architecture as an open document with derivative rights (the project is currently using the Creative Commons Attribution 3.0 License).

Effective participation requires the following:

- attend face-to-face meetings, participate to phone conferences,
- actively engage in email discussion on the topic,
- perform off-line investigations or research,
- co-author sections of the document presenting the results of the investigation team.

Submission papers should be sent to contact given for the individual topics of the call.

After reviewing all the position papers, the project will issue invitations to join the Investigation Teams. The kickoff meeting for the Investigation Teams will be held in Brussels on October 20th and 21st.

You are requested to keep the same representative through the duration of the activity. The Investigation Teams are expected to complete their work by January 16th, 2009.

1 DETAILS ABOUT THE CONTRIBUTORS

Main Contact / Lead

- Name: Xabier Garcia de Kortazar
- Affiliation: Fundación Tekniker
- Email: xkortazar@tekniker.es
- Phone: (34) - 943206744
- Mobile Phone: (34) - 680629839

Additional Contributors (if any)

- Name: Izaskun Fernandez
- Affiliation: Fundación Tekniker
- Email: ifernandez@tekniker.es
- Phone: (34) - 943206744
- Mobile Phone:

- Name: Francisco Javier Diez
- Affiliation: Fundación Tekniker
- Email: fdiez@tekniker.es
- Phone: (34) - 943206744
- Mobile Phone:

Projects Represented

- Project: WearIT@Work
- Programme: IST – 6th FWP

2 TOPIC OF POSITION PAPER

Sections 2 and 3 combined should not exceed 4 pages. Additional information may be given in an appendix if needed.

2.1 Title

Declarative UI Authoring Languages

2.2 Dependencies

Design Time Service Composition

Context Model and Universal APIs

3 SUMMARY

We are both users and developers, and we are mainly interested in integration of services in industrial environments.

We are interested in defining, developing a declarative authoring language for user interfaces, which could be validated in industrial and manufacturing automation environments.

Please avoid giving a problem statement similar to the one given in the description of the topic you are addressing. Only if you take another perspective or address a far more specific problem please indicate this.

Please refer to the contribution description of the topic you are addressing. Please remember that NEXOF RA aims at collecting and integrating architectural choices, patterns and best practices. Especially during the investigation team work phase we will build on your contribution to analyze the key concepts and to integrate them with other concepts.

Please indicate shortly if your contributions are matching the scope and the baseline as described in the topic you are addressing or if your contribution will go in another direction.

3.1 Background

Tekniker has been involved in the WearIT@Work EU Project developing services and integrating them in production (manufacturing) lines. More specifically we have developed services to assist operators in maintenance operations. Context is a key topic in this issue, since information depends on user, operation, status, equipment, peripherals, ...

These services need a UI level implementation depending on the context. We have tried to use Declarative UI authoring languages, but we think there is still a long way to go, and we can provide our experience in industrial environments (we've got more that 25 years of history working in manufacturing automation).

3.2 Details

We are mainly interested in developing and testing declarative UI authoring languages in industrial environments. Create system/context independent services that integrate fine in any industrial environment without any specific UI development.

Besides, we are developing a Competitive Intelligence and Technology Watch platform, based in Yahoo!Pipes or RSSBus idea. We've got many services and tools to monitor many different sites and we are developing a platform which integrates all of them. The main goal is to develop an open platform that permits adding new services, integrating all of them with the existing UI, but also been able to use those services from different platforms or systems.

In this section you can provide more details regarding your intended contribution if that is needed to clarify your intentions. This section can be as long as required but we recommend that you keep it as short as possible. You may also refer to existing publications instead of providing details in place. Please list them in the reference section at the end of the document, and list here their specific contribution to resolve the problem statement.

REFERENCES

- [1] <fill-in (if any)>.