

XEN@MAI

User Meeting

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# Xenomai – What is it ?

Xenomai = Real-Time and RTOS  
Emulation Framework for Linux

- 2001 – First public release
- 2002 – Xenomai ported over Adeos
- 2003 – join forces with RTAI,  
port RTAI over Adeos
- 2005 – leave RTAI, be independent again
- 2008 - Xenomai/SOLO

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# Xenomai – Why are we here ?

- Xenomai... what was that name? What's that?
- Is it qualified for industrial use?
- Are there any projects that really use it?
- Where can I find help?
- Who provides commercial support?
- Establish direct contact between Makers and Users; provide bi-directional feedback
- Match faces to names !
- Get out of the niche: every visible use case helps to promote Xenomai
- Encourage potential users: you are not alone

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# Xenomai – Who is Who ?

- Philippe Gerum – Project Leader  
“Mr. Xenomai”
- Gilles Chanteperdrix – Co-Leader  
ARM (incl. Adeos), POSIX Skin, SMP
- Jan Kiszka – RTDM
- Wolfgang Grandegger – RT-Can
- Alexis Berlemont – Analogy (Comedy)
- See also: <http://git.xenomai.org/?p=xenomai-head.git;a=blob;f=CREDITS>

# Xenomai – Who is Here ?

- Core Developers: Philippe Gerum, Gilles Chanteperdrix, Jan Kiszka, Wolfgang Grandegger ...
- Advanced Control Systems, Belgrade, Serbia
- DENX (SE+CS), Gröbenzell, Germany
- Flanders' Mechatronics Technology Centre, Leuven, Belgium
- Katholieke Universiteit Leuven, Belgium
- KW-Software GmbH, Lemgo, Germany
- Lolitech, Saint-Dié-des-Vosges, France
- manroland AG, Augsburg, Germany
- Netstal-Machinery Ltd., Naefels, Switzerland
- OMICRON electronics GmbH, Austria
- Ruggedcom Inc., Woodbridge, Canada
- Siemens AG, Munich, Germany
- Xerox, Welwyn Garden City, United Kingdom

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# Agenda (1)

13:00 Welcome

Wolfgang Denk, DENX Software Engineering GmbH, Gröbenzell, Germany

13:10 Xenomai Roadmap

Philippe Gerum, xenomai.org

13:40 t.b.d.

Jan Kiszka, Siemens, Munich, Germany

14:10 Xenomai Operation in the Industrial Environment of Printing Systems

Roderik Wildenburg, manroland AG, Augsburg, Germany

14:40 Real Time Toolkit for Open Robot Control Software

Peter Soetens, Katholieke Universiteit Leuven, Belgium

Markus Klotzbücher, Katholieke Universiteit Leuven, Belgium

15:10 How we use the OrocOS/Xenomai combo

Klaas Gadeyne, Flanders' Mechatronics Technology Centre, Leuven, Belgium

15:20 Xenomai and Realtime Image Processing Control

Jorge Ramirez-Ortiz, Xerox, Welwyn Garden City, United Kingdom

15:45 Coffee Break

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# Agenda (2)

- 16:15 ARM Fast Context Switch Extension for Linux  
Richard Cochran, OMICRON electronics GmbH  
Gilles Chanteperdrix, xenomai.org
- 16:40 About the Challenges and Successes with Xenomai in an Industrial Environment  
Andreas Glatz, Ruggedcom Inc.
- 16:55 Beremiz roadmap from CanFestival and MatPLC to Automforge.net  
Edouard Tisserant, Lolitech, Saint-Dié-des-Vosges, France
- 17:10 Xenomai: Experiences with Testing and Continuous Integration  
Niklaus Giger, Netstal-Machinery Ltd., Naefels, Switzerland
- 17:30 Technology for Your Automation  
Martin Gottschlich, KW-Software GmbH, Lemgo, Germany
- 17:45 Advanced Control Systems  
Bosko Radivojevic, Advanced Control Systems, Belgrade, Serbia
- 18:00 Open Discussion
- 18:30 The End

# Discussion

- Meet again ? ==> yes !!
- How frequently? ==> about once per year
- Where? ==> somewhere in Europe
- Organization? ==> combine with other community event