



Test Execution and Test Management for Numerical Control Software

Best Practice Action IST-1999-20333

Dissemination Plan

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1 Objectives

According to the Description of Work (DOW) of the TEAM project /1/ the present Dissemination Plan (DP) of the TEAM project describes the intended dissemination activities and the time scheduling of this activities.

Dissemination activities will be executed in order to transfer the experience in component based software development ISG and FISW Steuerungstechnik have. First of all this dissemination activities will be focused on the experience gained out of the TEAM project, that deals with the improvement of Test Execution and Test Management for Numerical Control (NC) Software. In addition to this the transfer of already existing knowledge in component based software development will be part of the dissemination activities (presentations, publications) in order to support the Best Practice idea.

Furthermore it is intended to obtain some feedback from experienced software developers, who can judge the execution of the TEAM project, by executing dissemination activities. In this way it is possible for the TEAM project members to improve the project execution continuously while the project is running.

2 Dissemination Activities

2.1 External Dissemination

2.1.1 Presentation at International Events

The participants of the TEAM project plan to present the project's results on different international events with Software practitioners, production engineers and research engineers (automation systems) as target audience. In particular the possibility to discuss the presented results with the audience immediately after the presentation as well as during the breaks of the event enables an effective experience exchange and dissemination of the results. As the project results will also be published in proceedings this kind of dissemination will have a lasting effect.

At the moment for two events the contribution respectively the abstract is already accepted. The first one is the 51st CIRP General Assembly hold from 19th - 25th August 2001 in Nancy, France, August (EXT-D1). As CIRP is the International Institution for Production Engineering Research /2/ the target audience will be production engineering researchers from all well-known production engineering institutes all over the world. The presentation relating to the TEAM project will be presented within the session on "machines", that includes also the target audience, dealing with software components for automation systems.

The second presentation at an international event will be a presentation on the GMA-Kongress 2001, "Automatisierungstechnik im Spannungsfeld neuer Technologien" hold from 22nd - 23rd Mai 2001 in Baden-Baden, Germany /3/ (EXT-D2). The abstract and the contribution will be written in German so the international aspect of the conference might be negligible. The target audience will be software practitioners out of the production engineering field dealing with different kinds of automation systems. The organiser of the congress will be the Society for Measurement and Automatic Control (GMA) /4/, which is the relevant society of the Association of German Engineers (VDI) /5/ for production engineers dealing with software components for automation systems.

As third presentation at an international event the TEAM project members will apply for an event with an international target audience, dealing with component based software development (EXT-D3). For this purpose the evaluation of relevant information sources (e.g. /6/, /7/) is currently running.

2.1.2 Presentation within Associations

As ISG and FISW Steuerungstechnik GmbH are members in different associations (e.g. /8/), the TEAM project results will be presented within regular meetings and experience exchanges of the relevant sub-organisations ("Software") of this associations (EXT-D4). The target audience will be software practitioners out of the production engineering field dealing with different kinds of automation systems. The date of presentation within this associations depends on the time scheduling of the relevant sub-organisations and is unknown at present.

The presentation of information about the TEAM project will not only be helpful to disseminate project results but also to inform about IST's goals, software process improvement, software QA etc..

2.1.3 Presentation within the Cluster

According to the DOW of the TEAM project /1/ dissemination activities within a cluster are planned. The cluster, consisting out of the REINDEER project and the TEAM project, will execute for this purpose two presentations. One presentation in Turin (EXT-D5) and one presentation in Stuttgart (EXT-D6). Both presentations are planned for the second half of 2001. The exact date will be defined among the cluster members according to relevant milestones of the REINDEER and TEAM project.

The target audience for these presentations will be the software developers of the company FIDIA S.p.A. for EXT-D5 and the software developers of the companies ISG and FISW Steuerungstechnik GmbH for EXT-D6. As all software developers of the mentioned companies are dealing with component based software for automation systems, an effective transfer of the project results to the software developers can be guaranteed.

2.1.4 Publication via WWW

A continuous dissemination will be the publication of the TEAM project's results via the World Wide Web (WWW) with a special TEAM project homepage (EXT-D7, /9/). Beside the publication of the project results, that are not restricted to the commission and to partners within the cluster, also links to other homepages (IST /10/, partner projects within the cluster, process improvement activities, V-Modell /11/ etc.) will be integrated to this homepage.

2.1.5 Essay in Professional Journals

To disseminate the TEAM project results among software practitioners, production engineers and NC manufacturers it is planned to publish an essay in professional journals (EXT-D8). The evaluation of an appropriate journal and edition is currently running. The goal in this evaluation is to reach a target audience, that is dealing with component based software development in the production engineering field. To publish a complete summary of the project, with all positive and negative experiences gained out of the project, the essay is terminated for the end of the project.

2.2 Internal Dissemination

All documents describing the TEAM project results as well as all TEAM project meeting reports will be available via ISG's intranet (Lotus Notes) for ISG's employees (INT-D1). In this way a continuous internal dissemination of the project results can be enabled.

A further internal dissemination (INT-D2) is done during the weekly meetings of ISG's software engineers, when the current state of the project is reported. These meetings will also be used for short presentations of the project's results to inform ISG's software engineers about the technical state of the project. This is important to guarantee a high acceptance of the TEAM project and to optimise the integration of the project results to the daily work of all software engineers of ISG (not only the team members involved in the TEAM baseline project) within the post project activities.

Both internal dissemination activities, that are executed continuously while the project is running, give ISG's software engineers the possibility to give comments and suggestions in order to optimise the execution of the TEAM project. In this way it is possible to use the experience of the different software engineers, that exists already according to QA activities.

3 Time Scheduling

Ref.	Activity	Event	Type	Target audience	Planned date	State
EXT-D1	1 st presentation at international event	51st CIRP General Assembly, Nancy, France	Presentation and publication	Production engineering researchers	19 th - 25 th August 2001	Contribution accepted
EXT-D2	2 nd presentation at international event	GMA-Kongress 2001, Automatisierungstechnik im Spannungsfeld neuer Technologien, Baden-Baden, Germany	Presentation and publication	Software practitioners, production engineers (automation systems)	22 nd - 23 rd Mai 2001	Abstract accepted; contribution in process
EXT-D3	3 rd presentation at international event	Unknown at present	Presentation and publication	Software practitioners	Unknown at present	Evaluation of an appropriate event is running
EXT-D4	External presentation	Exchange of experience within German Machinery and Plant Manufacturers' Association (VDMA), Working Group „Software“, Frankfurt, Germany	Presentation	Software practitioners	Unknown at present	Planned
EXT-D5	External presentation	Dissemination initiative within the cluster, Turin, Italy	Presentation	Software practitioners	Second half of 2001	Planned
EXT-D6	External presentation	Dissemination initiative within the cluster, Stuttgart, Germany	Presentation	Software practitioners	Second half of 2001	Planned
EXT-D7	Design of a TEAM-Homepage	-	Publication (via WWW)	Software practitioners	Continuously while project is running	In process
EXT-D8	Essay in professional journal	-	Publication	Software practitioners, production engineers, NC manufacturers	End of the project	Evaluation of an appropriate journal and edition is running

INT-D1	Publication of project's documents via ISG's intranet	-	Publication	ISG	Continuously while project is running	In process
INT-D2	Report on current project status/results	-	Status report and presentation	ISG	Continuously while project is running	In process

4 Glossary

CIRP	International Institution for Production Engineering Research
DOW	Description of Work
DP	Dissemination Plan
EXT-Dx	External Dissemination No. X
GMA	Gesellschaft Mess- und Automatisierungstechnik
INT-Dx	Internal Dissemination No. X
ISG	Industrielle Steuerungstechnik GmbH
IST	Information Society Technologies
NC	Numerical Control
QA	Quality Assurance
REINDEER	Remote Composition and Documentation of Software Products; IST project No. IST-1999-20288
TEAM	Test Execution and Test Management for Numerical Control Software; IST project No. IST-1999-20333
VDI	Verein Deutscher Ingenieure
VDMA	Verband Deutscher Maschinen- und Anlagenbau
WWW	World Wide Web

5 References

- /1/ ISG: TEAM Project - Description of Work Version 5, Annex I of IST Contract No. IST-1999-20333, Stuttgart, 2000.
- /2/ www.cirp.net
- /3/ www.vdi.de/gma/338106.pdf
- /4/ www.vdi.de/gma
- /5/ www.vdi.de
- /6/ www.cordis.lu/ist/ka4/tesss/events.htm
- /7/ www.esi.es/WorldwideEvents
- /8/ www.vdma.de
- /9/ www.isg-stuttgart.de/team
- /10/ www.cordis.lu/ist/home.html
- /11/ www.v-modell.iabg.de