# Experience of Software Development Cooperation and Proposals on its Facilitation

G.Pikulina, S.Taova
CNPD, Russian Federal Nuclear Center-VNIIEF
Russia,607188, Sarov, Nizhnij Novgorod region, pr. Mira, 37

Modern level of software development needs a lot of time and resources. Design of multifunctional software package is possible due to the efforts of a skilled programmers' team.

Unfortunately we have no such team when developing the EXFOR-Editor but we have a chance to use applications, designed by our colleagues from other centers.

First, we faced with the necessity to transform the EXFOR dictionaries into the ACCESS format. Victor Zerkin kindly helped us to solve this problem. He also prepared loadable versions of ZOrder and ZChex programs for EXFOR-Editor.

Another example of successful cooperation between Data Centers is our collaboration with NEA DATABANK. Nicolas Sopperra regularly helps us and prepares an updated loadable version of JANIS Trans Checker.

Using of these program codes provides correct ordering and checking of EXFOR files in EXFOR-Editor and substantially decreases the time of software development.

The works on software designing are being performed in different centers. Some of these applications may be interesting from the point of view of their integration into EXFOR-Editor.

For example presenting the EXFOR file in a form of interactive tree with nested structure in X4± format may be useful for additional checking of input information.

We are also interested in including the digitizing system GSYS from JCPRG into the EXFOR-Editor software.

It should be mentioned that including the external software into a working program code is not a formal procedure. It consists of two aspects:

1. Technical problem – compatibility of different software modules;
2. Legal problem – distribution and exchange with software products between the centers.

At present we simply address to the software designers with the personal requests to prepare the adapted version of the program code. In most cases it works.

But taking into account the possibility of further cooperation expansion we consider it reasonable to arrange this procedure if the community is interested in this field of activity. The request should be not considered as a personal appeal (private initiative) but as a more or less official (formal) action.

Three ways may be considered:

- direct contacts with software designers or Data Center Head on software adaptation;
- approved decision of the NRDC Meeting and the corresponding action;
- cooperation via NDS.

We have also faced the challenge of complex testing and checking of our software. We think that this problem can be also solved in cooperation.

On our part we would like to stress that we are always open for communication and will appreciate any help and support from the community members in EXFOR-Editor development.