

Action 50 – “Propose revision of “EXFOR processing and retrieval codes” in the NRDC Protocol for future co-operation in software development between centers”

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Memo CP-F/006

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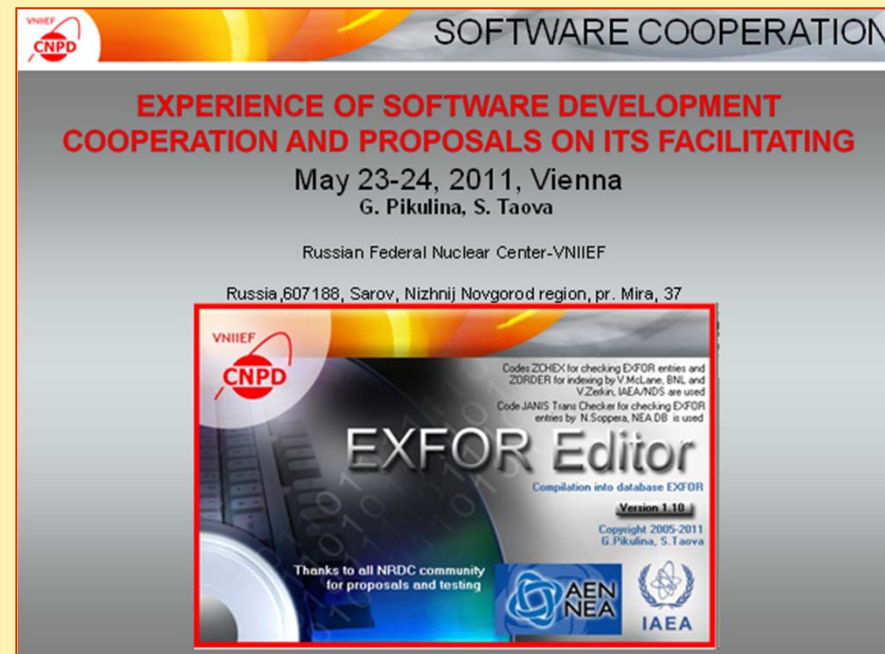
**Subject:** Revision of “EXFOR processing and retrieval codes” (Action 50 of Conclusions and Actions of the 2011 NRDC meeting)

According to the decision of the 2011 NRDC meeting (Conclusions and Actions..., Action 50 – “Propose revision of “EXFOR processing and retrieval codes” in the NRDC Protocol for future co-operation in software development between centers” ) it is proposed to add the text below to the existing section.

**“The Centre can request the originating Centre to include the original code in a form of standalone executable module to the developed software for**

# “Experience of software development. Cooperation and proposals on its facilitating”

([www-nds.iaea.org/nrdc/nrdc\\_2011/present/pikulina2.pdf](http://www-nds.iaea.org/nrdc/nrdc_2011/present/pikulina2.pdf)).



Protocol “Exfor processing and retrieval codes”

70-s – 80-s

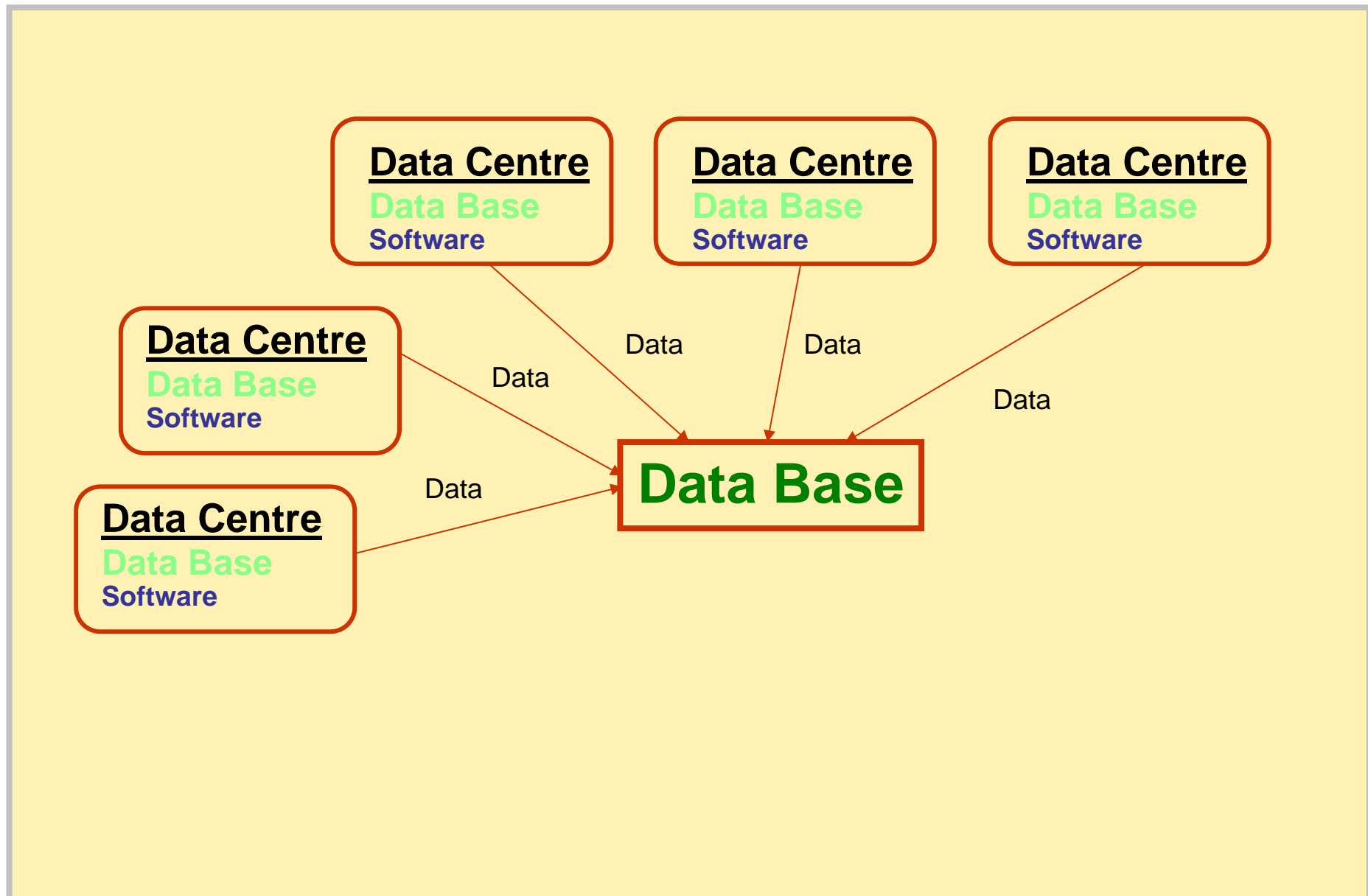
Data Centre  
Data Base  
Software

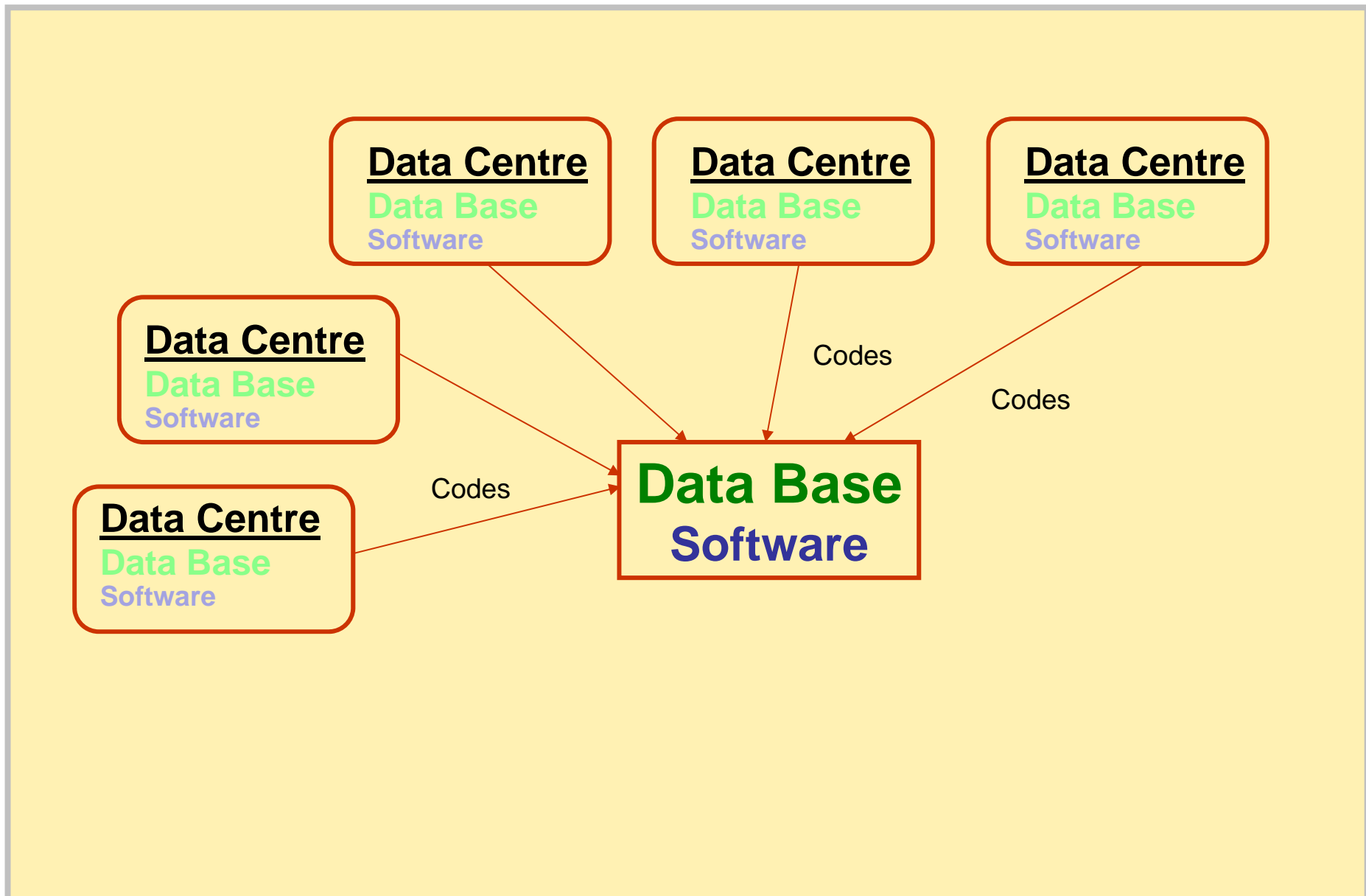
Data Centre  
Data Base  
Software

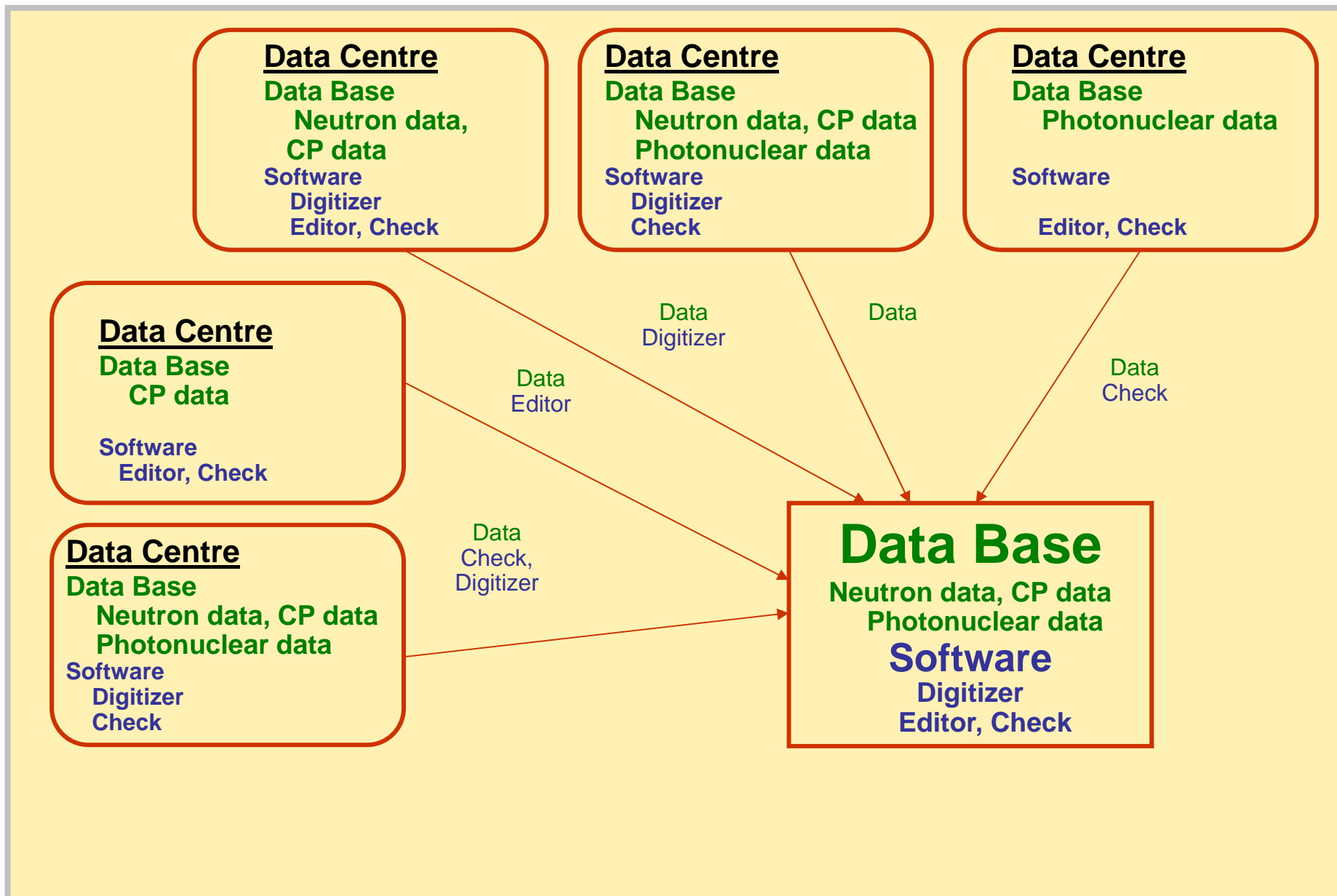
Data Centre  
Data Base  
Software

Data Centre  
Data Base  
Software

Data Centre  
Data Base  
Software







**Nuclear Data Services**  
 Section Données Nucléaires, AIEA
 

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Databases »

EXFOR | ENDF | CINDA | IBANDL | Medical | PGAA | NGAtlas | RIPL | FENDL | IRDF-2002

**^ Databases**

**EXFOR**

- [What is EXFOR?](#)
- [EXFOR News](#)
- [Feedback](#)
- [Feedback \(SG30\)](#)
- [Articles in compilation](#)

**CINDA**

- [What is CINDA?](#)
- [Feedback](#)

**ENDF**

- [What is ENDF?](#)
- [ENDF Citation](#)

**^ NRDC Centres**

- [NNDC \(USA\)](#)
- [NEADB \(France\)](#)
- [NDS \(Austria\)](#)
- [CJD \(Russia\)](#)
- [CNDK \(China\)](#)
- [ATOMKI \(Hungary\)](#)
- [NDPCI \(India\)](#)
- [JAEA \(Japan\)](#)
- [JCPRG \(Japan\)](#)
- [KAERI \(Korea\)](#)
- [CAJaD \(Russia\)](#)
- [CDFE \(Russia\)](#)
- [CNPD \(Russia\)](#)
- [UkrNDC \(Ukraine\)](#)

## NRDC Software

Checking code, digitizers, editors etc.

**Current version - Windows**

Software	Centre	Size (kb)	Registered
<a href="#">EXFOR Digitizer ver.2.1</a>	CNPD	5467	2010-09-01
<a href="#">EXFOR Editor ver.1.11.1</a>	CNPD	49334	2011-12-02
<a href="#">GSYS ver.2.4.1</a>	JCPRG	-	2011-09-15
<a href="#">JANIS TRANS Checker</a>	NEA DB	-	2010-05-06
<a href="#">danlo</a>	NDS	165	
<a href="#">xtract ver.2000-1</a>	NDS	210	2007-10-02
<a href="#">zchex ver.2011-01-31</a>	NDS	2855	2011-01-31
<a href="#">zorder ver.2010-1</a>	NDS	179	2010-04-08

**Current version - Linux**

Software	Centre	Size (kb)	Registered
<a href="#">GSYS ver.2.4.1</a>	JCPRG	-	2011-09-15
<a href="#">JANIS TRANS Checker</a>	NEA DB	-	2010-05-06
<a href="#">danlo</a>	NDS	371	
<a href="#">xtract ver.2000-1</a>	NDS	423	2007-10-02
<a href="#">zchex ver.2011-01-31</a>	NDS	3431	2011-01-31
<a href="#">zorder ver.2010-1</a>	NDS	270	2010-04-08

**^ Documents**

- [Network Document](#)
- [EXFOR Basics \(pdf\)](#)
- [EXFOR Basics \(html\)](#)
- [EXFOR Formats](#)
- [LEXFOR](#)
- [Protocol](#)
- [Dictionary](#)
- [Short Guide](#)
- [CINDA2001](#)
- [ENDF-6 Formats](#)
- [More Documents](#)

**^ Codes**

[Codes](#)

**^ NRDC Meetings**

- [2012 \(Paris\)](#)
- [2011 \(Vienna\)](#)
- [2010 \(Sapporo\)](#)
- [2009 \(Vienna\)](#)
- [2008 \(Obninsk\)](#)
- [2007 \(Vienna\)](#)
- [2006 \(Vienna\)](#)
- [2005 \(Vienna\)](#)
- [2004 \(Brookhaven\)](#)
- [2003 \(Vienna\)](#)
- [2002 \(Paris\)](#)
- [2001 \(Vienna\)](#)

## Data integration leads to software integration!

Example

**Exfor-Editor**

**Exchange of software**

CNPD (Sarov), NDS (Vienna),  
NEA DATA Bank (Paris)

**Discussion**

**Suggestions,  
Proposals**

**Testing**



## Motivation for changes in the Protocol

- Reflect the existence of new kind of cooperation (exchange of executable modules)
- Define the main principles of such cooperation
- Provide the continuity in the EXFOR Project development

## Proposals

### **- Reflect the existence of new kind of cooperation (exchange of executable modules)**

“The Centre can request the originating Centre to include the original code in a form of standalone executable module to the developed software for collective using in the community. The Centre can also request the originating Centre to make some changes in the original code to adapt it to the existing software”.

### **- Define the main principles of such cooperation**

“If the Centre wins the consent it becomes responsible for tracing the last release of original code and including it to the developed software when generating the new version”.

### **- Provide the continuity in the EXFOR Project development**

“Questions regarding the necessity and possibility of jointly used software could be included in the agenda of the incoming NRDC meeting for discussion. For this purpose the proposals should be sent out at least four weeks prior to the meeting date”.

**Protocol:**

***“EXFOR PROCESSING AND RETRIEVAL CODES***

***Some EXFOR Processing and Retrieval programs are used by more than one data Centre. Each Centre using one of these programs is invited to contribute suggestions for updates to the program. The originating Centre will inform other Centres about codes being used or developed, and also coordinate all program updates.***

***If another Centre wishes to update a code, that Centre should communicate their intention to the originating Centre before any updates are done. Any updates can be done after discussion with the originating Centre and upon mutual agreement. The updated code should be transmitted immediately to the originating Centre.***

***The originating Centre retains responsibility for the official version of the code and is free to reject unsanctioned updates. Only the originating Centre will transmit updated versions to the other Centres.”***

**It's time to think about the future!**