

# Status of MyEnsdf web-tools and EXFOR-NSR PDF database.

Viktor Zerkin

International Atomic Energy Agency, Nuclear Data Section



# MyEnsdf web-tools

*Main purpose: running ENSDF codes on user's ENSDF file on Web server*

## History since April 2022

- 2022-09-30 **Updated** BrIccMixing to the version v2.3d (28-Sep-2019)
- 2022-09-30 Removed XPQCHK v-2014 (checks consistency of quantities given on p-card)
- 2022-07-22 **Updated** FMTCHK to v10.4d, 07-Sep-2022
- 2022-07-22 Removed GABS /T.Kibedi/ v-11.c, 08-Jan-2017
- 2022-05-25 **Updated** BrIcc to v2.3e, 17-Jun-2020
- 2022-05-25 **Updated** ALPHAD\_RadD to the version 1.0 [15-Nov-2020]
- 2022-05-24 **Updated** ALPHAD to the version 2.0d, 21-Nov-2020
- 2022-05-23 **Added** GABS-12 version [20-Jun-2021]

## Notes

- JAVA-NDS /v-2.1, 19-Dec-2021/: works, produces TeX and PDF files
- NDSPUB /v-12.26b, 15-Jul-2008/: still working, but without uploading config-file
- XPQCHK: stopped working (as result of IT-security update)

# EXFOR-NSR PDF database

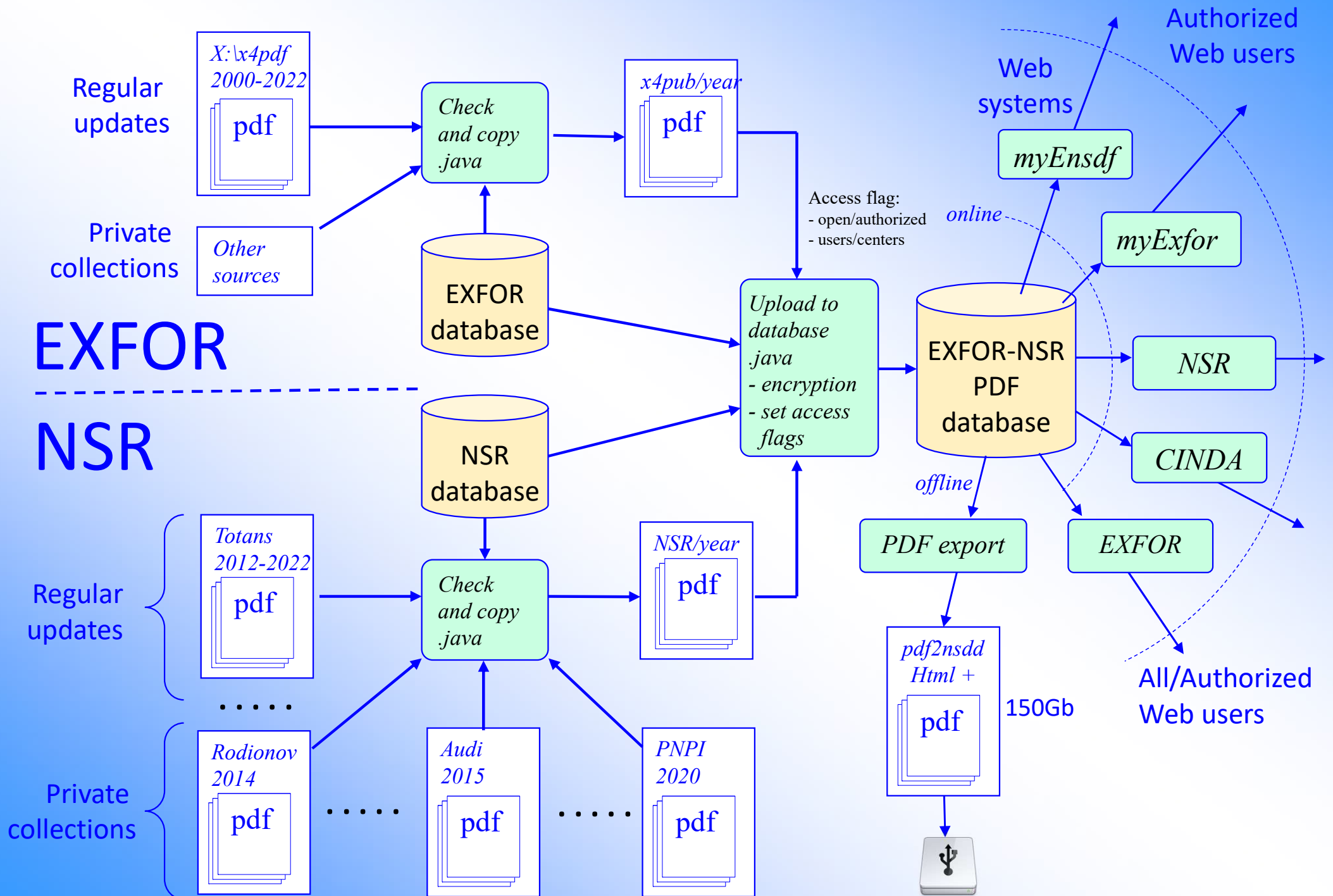
## Current status

- Publications: from 1857 to 2022 (124 years)
- Content: 224,551 PDF files from 2000 to 2022 (23 years)
- Total size: 193 GiB
- NSR coverage: 189,675 PDF files (~79.1%)
- EXFOR coverage: 27,473 PDF files (~77.6%)
- Open access: 2,687 PDF files (~1.2%) - only IAEA-INDC and KINR reports
- Web access/NDS: via EXFOR, CINDA, myEnsdf, catalog, direct access

## Recent news

- 2022-10 NNDC: “NSR PDF database can no longer be accessed outside of the BNL firewall“
- 2022-10 Added direct access on Web by NSR Keyno (requested by Balraj Singh), for example:  
<https://www-nds.iaea.org/exfor/servlet/X4sGetX4Pdf?kn=1966Ar15,1971We15,1987KOZF>
- 2022-04 Work on matching EXFOR-NSR JINR-Reports (Dubna) with INIS //goal: open access via INIS
- 2022-03 Paper describing EXFOR-NSR PDF database published in “Journal of Instrumentation”  
*V.V.Zerkin, B.Pritychenko, J.Totans, L.Vrapcjenjak, A.Rodionov, G.I.Shulyak,*  
“EXFOR-NSR PDF database: a system for nuclear knowledge preservation and data curation”  
DOI: <https://doi.org/10.1088/1748-0221/17/03/P03012>  
NSR: <https://www.nndc.bnl.gov/nsr/nsrlink.jsp?2022ZE01>

# Functioning of EXFOR-NSR PDF database



# EXFOR-NSR PDF database content by years

## EXFOR-NSR PDF database

Database updated: 2022-10-18. Files: 224551 from 2000-04-19 to 2022-10-18.



-	-	-	-	-	-	1857:1	1858:2	-	-	[1851-1858]:3
-	-	-	-	-	1896:3	-	1898:4	1899:1	-	[1891-1899]:8
1901:1	1902:2	1903:5	1904:5	1905:4	1906:2	1907:4	1908:2	1909:1	1910:5	[1901-1910]:31
1911:2	1912:1	1913:4	-	-	-	1917:4	1918:2	1919:3	1920:3	[1911-1920]:19
1921:5	1922:4	1923:3	1924:5	1925:2	1926:1	1927:3	1928:14	1929:8	1930:14	[1921-1930]:59
1931:27	1932:25	1933:30	1934:48	1935:59	1936:58	1937:81	1938:74	1939:128	1940:98	[1931-1940]:628
1941:74	1942:33	1943:86	1944:168	1945:107	1946:179	1947:253	1948:218	1949:384	1950:514	[1941-1950]:2016
1951:580	1952:577	1953:615	1954:762	1955:827	1956:920	1957:971	1958:1326	1959:1220	1960:1635	[1951-1960]:9433
1961:1747	1962:1747	1963:2058	1964:1765	1965:2018	1966:2251	1967:2458	1968:2661	1969:2906	1970:3595	[1961-1970]:23206
1971:4072	1972:4859	1973:5616	1974:4540	1975:3930	1976:3890	1977:3688	1978:3629	1979:3494	1980:3545	[1971-1980]:41263
1981:3354	1982:3490	1983:3581	1984:3555	1985:3127	1986:3205	1987:3501	1988:3375	1989:3376	1990:3305	[1981-1990]:33869
1991:2820	1992:3081	1993:3301	1994:4244	1995:4007	1996:3973	1997:3860	1998:4177	1999:4319	2000:4304	[1991-2000]:38086
2001:4570	2002:4849	2003:4534	2004:4818	2005:5012	2006:4317	2007:4980	2008:4001	2009:3882	2010:3639	[2001-2010]:44602
2011:4027	2012:3694	2013:3488	2014:3663	2015:3098	2016:3582	2017:3608	2018:2710	2019:2504	2020:417	[2011-2020]:30791
2021:330	2022:207									[2021-2022]:537

Total years:124, files:224551

### PDF coverage

Database	#PDF/#References	#PDF+	Total #PDF+	Todo #PDF
NSR	189,675/239,848 ~79.1%	+1,662 ~0.7% from EXFOR	191,337 ~79.8%	48,511 ~20.2%
EXFOR	27,473/35,396 ~77.6%	+1,989 ~5.6% from NSR	29,462 ~83.2%	5,934 ~16.8%
CINDA	14,418/39,811 ~36.2%			
IBANDL	662/813 ~81.4%			

# PDF database updates

## Registered contributions:

45)	202200_Pritychenko	/5/
46)	202200_Totans	/1262/
47)	202200_Vrapcenjak	/410/
48)	202202_Zerkin	/5/
49)	202204_Zerkin_JINR	/22/
50)	202210_Balraj	/1/
51)	202210_Totans	/45/
52)	202210_Vrapcenjak	/1/

## Registered contributors:

1	PNPI	149649	78.7%
2	Totans	14684	7.7%
3	Shulyak	13314	7%
4	Zerkin	3485	1.8%
5	Audi	2539	1.3%
6	Rodionov	2356	1.2%
7	Pritychenko	1778	0.9%
8	Kondev	1110	0.6%
9	Vrapcenjak	1068	0.6%
10	Balraj	260	0.1%
11	Dimitriou	9	0.005%
	Total	190252	100%

2022	2021	2020	2019	2018
Updates: 60	Updates: 72	Updates: 72	Updates: 86	Updates: 82
EXFOR-PDF: 880	EXFOR-PDF: 1064	EXFOR-PDF: 1201	EXFOR-PDF: 1282	EXFOR-PDF: 2158
NSR-PDF: 1751	NSR-PDF: 1602	NSR-PDF: 1347	NSR-PDF: 12455	NSR-PDF: 59027
All PDF: 2631	All PDF: 2666	All PDF: 2548	All PDF: 13737	All PDF: 61185
2017	2016	2015	2014	2013
Updates: 62	Updates: 39	Updates: 31	Updates: 13	Updates: 8
EXFOR-PDF: 1748	EXFOR-PDF: 2020	EXFOR-PDF: 1516	EXFOR-PDF: 857	EXFOR-PDF: 21626
NSR-PDF: 55812	NSR-PDF: 47834	NSR-PDF: 5749	NSR-PDF: 353	NSR-PDF: 4269
All PDF: 57560	All PDF: 49854	All PDF: 7265	All PDF: 1210	All PDF: 25895

Total updates: 525

**Thank you.**