



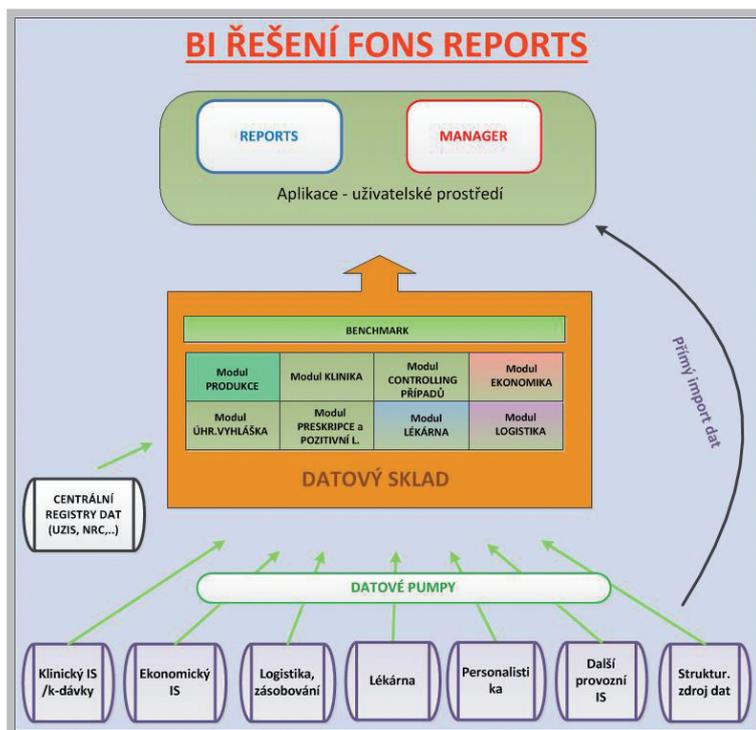
FONS REPORTS – BI SOLUTION FOR THE MANAGEMENT OF MEDICAL FACILITIES

FONS Reports is a modern management information system (BI). This solution is used for planning, controlling, and evaluating parameters from individual areas of management in health care.

FONS Reports is a full-value **BI tool based on the concept of a standard data warehouse** to which operational system primary data are pumped by data pumps. OLAP technology creates multidimensional cubes, where data are structured in dimension tables and fact tables so that they are prepared to be immediately used for any report used without waiting or calculating for a long time. This architecture can provide a user with any information mined from operational system data online at any time.

The data mining process or the process of mining data from primary systems using data pumps takes place fully automatically with a defined frequency at a defined time and is controlled by the system central data pump.

The **presentation layer** is an application user interface that enables to create views of data in such form that the user requirements for reporting provided are met. Two basic user interfaces are available in BI FONS Reports.

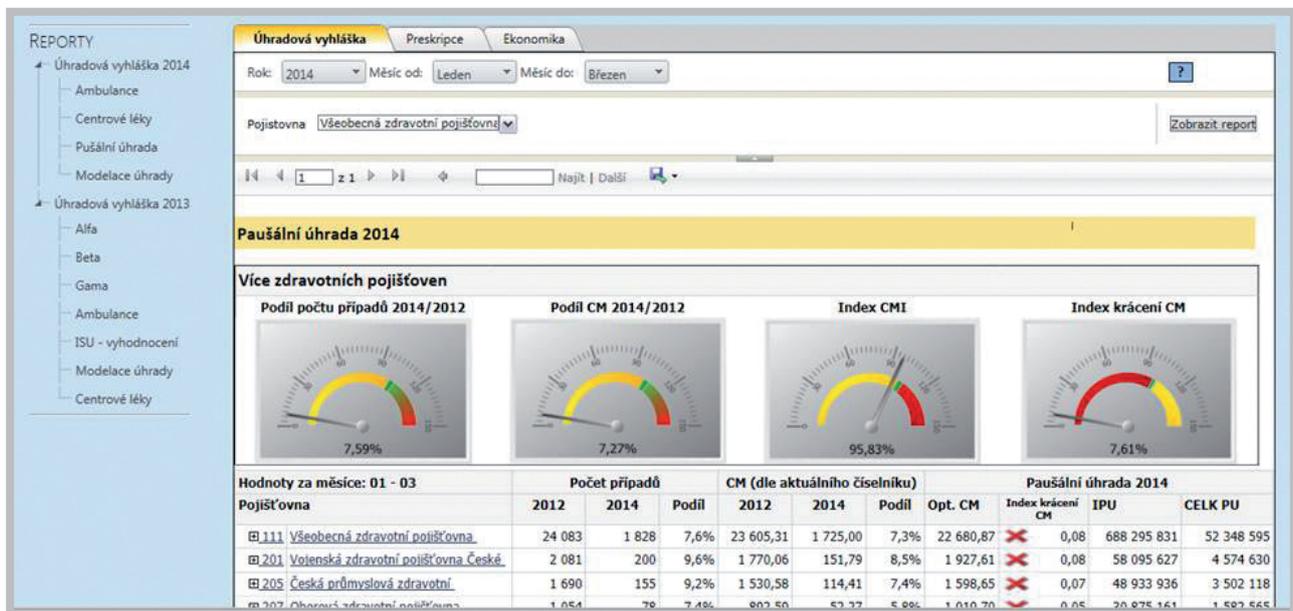


The presentation of data is available to a user in the Report or Manager environment.

- ▶ The Reports presentation layer is intended for detailed and analytical work with outputs in any sections of a hospital – both top management and middle management.

An example of a Report interface

- ▶ The Manager presentation layer is intended especially for orientating quickly and in a well arranged way in selected reports.



An example of a Manager interface

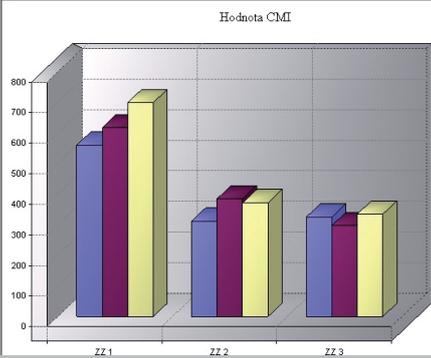
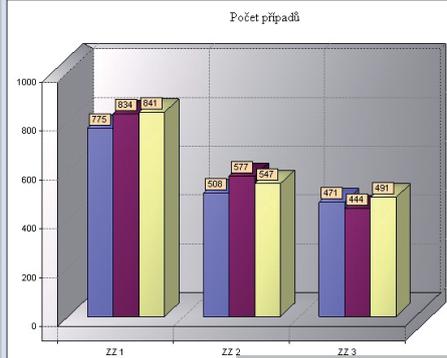
Sets of standard queries are prepared for any solved area in FONS Reports. They are based on the product designers and consultants' experience and also on partner hospitals' best practice. In addition, the Report user analytical interface enables to create custom queries, either by modifying standard reports or by creating a completely new definition at the user or administrator level.

Individual areas of management are processed using so-called **modules** in BIS FONS Reports. Each module always includes data pumps from the related data sources, necessary tables and definitions in the data warehouse, and sets of queries that report the current status and values.

STANDARD MODULES

- ▶ Production
- ▶ Payment regulation
- ▶ Medicine prescription
- ▶ Economics
- ▶ DGR Controlling
- ▶ Clinic
- ▶ Pharmacy
- ▶ Logistics

Srovnání nemocnic																	
Rok		Měsíc		01 Leden			02 Únor			03 Březen			Grand Total				
Kód pojistovny	ZZ	Počet případů	CMI	Body celkem	ZUM	Počet případů	CMI	Body celkem	ZUM	Počet případů	CMI	Body celkem	ZUM	Počet případů	CMI	Body celkem	ZUM
111	ZZ 1	592	431,40	9 092 710	1 470 051	610	455,06	6 534 337	1 846 216	701	692,59	14 046 071	3 095 220	1 893	1479,05	31 673 118	6 411 488
	ZZ 2	401	296,17	4 887 986	298 897	444	306,96	5 426 070	411 966	433	303,82	5 426 222	420 852	1 278	866,96	15 740 278	1 131 715
	ZZ 3	328	235,19	3 848 800	530 618	300	210,27	3 676 596	477 888	331	233,43	4 376 102	543 716	959	678,89	11 901 600	1 552 222
201	ZZ 1	40	21,96	373 278	15 887	52	41,94	1 579 242	561 151	56	36,83	817 336	181 085	148	100,73	2 769 856	758 123
	ZZ 2	20	9,68	205 645	105 267	43	28,72	654 843	56 596	25	14,62	240 034	25 536	88	53,02	1 100 522	187 389
	ZZ 3	48	26,47	416 991	20 483	54	30,64	575 279	56 977	58	37,66	735 549	85 174	160	94,77	1 727 819	162 634
205	ZZ 1	58	37,57	667 027	142 202	65	43,27	956 169	73 421	54	53,99	979 288	112 233	177	134,84	2 602 484	327 856
	ZZ 2	25	12,07	230 593	4 836	15	6,61	124 768	12 816	25	13,18	165 910	10 057	65	31,86	521 261	27 710
	ZZ 3	16	12,49	165 581	28 545	15	9,05	184 286	32 523	13	8,51	298 738	54 963	44	30,05	648 605	116 030
207	ZZ 1	27	22,17	317 135	159 594	19	10,67	200 569	14 350	29	16,54	365 174	40 353	75	49,38	882 878	214 297
	ZZ 2	21	12,70	188 959	18 929	21	13,40	226 737	25 014	18	13,26	213 291	35 199	60	39,37	628 987	79 142
	ZZ 3	40	24,95	409 504	63 033	31	19,58	393 734	35 412	34	25,51	412 633	24 588	105	70,04	1 215 871	123 032
211	ZZ 1	68	48,06	1 011 363	233 773	88	67,44	1 507 703	406 778	1	0,39	19 477	0	157	115,90	2 538 543	640 551
	ZZ 2	41	21,30	275 750	90 289	54	29,74	356 019	26 530	46	27,51	669 945	62 663	141	78,55	1 301 714	179 302
	ZZ 3	39	26,46	416 973	114 141	44	27,99	507 648	61 086	55	30,17	422 805	42 356	138	84,62	1 347 426	217 586



REPORTY

Základní ukazatele
Provozní útvary

Produkcce | Ekonomika | Úhradová vyhláška | Preskripce | Logistika | **Benchmarking**

Rok: 2014 | Měsíc od: 01 | Měsíc do: 03 | Zobrazit report

Základní ukazatele produkce

ZZ	Případy DRG		CMI PRE		Ambulantní péče		Počet učit
	Počet případů	CMI PRE	Body celkem	ZULP a ZUM			
ZZ_01	3 027	2 109,76	43 391 778	3 671 081,96	33 629		
ZZ_02	2 468	2 224,13	31 316 553	15 992 018,51	23 191		
ZZ_03	11 022	8 347,17	182 977 848	9 364 132,01	118 331		
CELKEM	16 517	12 681,07	257 686 179	29 027 232,48	175 151		

Hospodářský výsledek

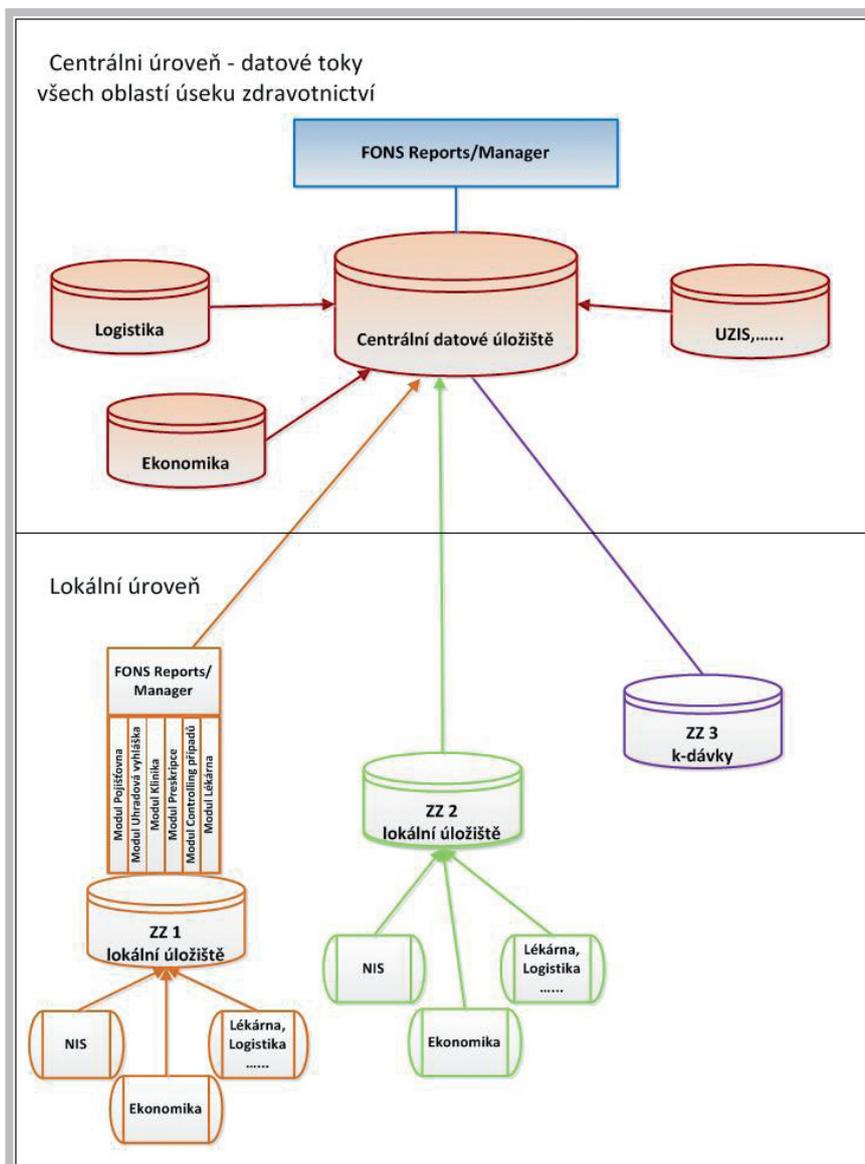
ZZ	Náklady	Výnosy	Hospodářský výsledek
ZZ_01	101 075 369	96 688 709	-4 386 659
ZZ_02	138 896 750	132 822 542	-6 074 208
Total	239 972 118	229 511 251	-10 460 867

BENCHMARK OF HOSPITALS – SOLUTION FOR HOLDINGS AND REGIONS

The FONS Reports BI solution is used as a basis for the standardization of the central (holding) controlling of medical facilities at the same time. The holding solution is based on the principle of local storages representing individual medical facilities.

The local data warehouses (LDSs) contain fact and dimension tables that will be created in the same structure in the central data warehouse (CDS) to enable to monitor and compare identical data categories between individual medical facilities. Data in the LDSs are pre-processed as required by central management and are regularly submitted to the central data warehouse. All stated activities take place automatically on the basis of data pumps.

The LDSs may also be used as a data warehouse of the local management system that allows for work with reports up to the smallest breakdown details (that have no practical use for holding's controlling and analyses, for example).



Holding solution architecture scheme

STAPRO s. r. o. | Pernštýnské nám. 51, 530 02 Pardubice | Czech republic
 tel.: +420 467 003 111 | fax: +420 467 003 119 | e-mail: stapro@stapro.cz | www.stapro.eu