

IT staffing ratios 2015



STKI Ratios TOC

- PC support
- Security
- Networking
- Storage
- Servers
- NOC
- Data Center
- DBA
- Enterprise System Management
- BI
- ERP
- Portal
- OCIO

PC Support Ratios



- Support Per PC for FTE

Per FTE	Service Desk	Second Level	Third – Image	Total Support per PC
25 percentile	201	250	1450	112
Median	387	492	3150	146
75 percentile	581	601	3905	249

- Support per Employee for FTE

Source: STKI

Per FTE	Service Desk	Second Level	Third – Image	Total Support per Empl.
25 percentile	253	300	1500	126
Median	315	555	3010	162
75 percentile	490	591	4000	201

Security personal ratio

- Number of Security personal in IT as percentage of total IT employees:

Per FTE	Security % IT personal
25 percentile	2.2%
Median	3.6%
75 percentile	5%



Source: STKI

Networking active ports ratio

- Number of active ports divided to total ports:

Per FTE	Active ports ratio
25 percentile	62%
Median	67%
75 percentile	79%



Source: STKI

Networking personal ratio

- Number of active ports divided to network staff members (voice + data):

Per FTE	# of active ports
25 percentile	500
Median	1000
75 percentile	1800



Source: STKI

Usable/Raw storage ratio

- Net Storage in this research – usable for applications:
 - ❖ After Raids
 - ❖ After replication to DRP
 - ❖ Without VTL's
 - ❖ The term “Usable storage” is tricky since with snapshots application can see more storage than “Raw storage”
- Slowly (but surely) the net/raw percentage is growing
- Based on last year's data

NET\RAW	Ratio
25 percentile	25%
Median	50%
75 percentile	70%

Source: STKI

Storage Ratios

- Number of Raw TB and Usable TB per Storage Staff Member FTE (including backup and DRP of storage):

Per FTE	RAW Storage	Usable Storage
25 percentile	151T	80T
Median	375T	131T
75 percentile	585T	315T

Source: STKI

- The ratios have not increased dramatically from last's year .



Server Ratios - Windows

- Number of Windows Servers (logical) per System member

Per FTE	All Win Servers	Prod Win Servers
25 percentile	92 servers	53 servers
Median	121 Servers	75 Servers
75 percentile	152 Servers	99 servers



- ❖ Result is similar to last's year
- ❖ Server is either physical or virtual
- ❖ This includes SBC\VDI (Citrix\WTS\Jetro) support
- For development environment's ratios can grow up to 600 servers per FTE
- Organizations with 100% identical servers in branches can get ratios up to 1500 servers per FTE

Source: STKI

Percent of Production Windows server from all Windows servers



Per FTE	Percent of prod servers
25 percentile	50%
Median	62%
75 percentile	76%

Server is either physical or virtual

Source: STKI

Percent of SBC FTE vs. total FTE (system)

- Based on last year's data

Per FTE	Percent of SBC FTE from total System FTE
25 percentile	17%
Median	27%
75 percentile	38%

Organization with significant SBC (Terminal Server\VDI)

Source: STKI

How many users are supported by SBC (Terminal Server\VDI) FTE

Per FTE	Users per SBC FTE
25 percentile	375
Median	959
75 percentile	2542



Users and not concurrent users

Users might work completely on SBC or partly (just deliver several applications)

The heavy SBC users (above 7500 users) will have “mini team” of 3-4 FTE

The rest of the users will have 0.5 to 1 FTE as part of the general system team

Source: STKI

NOC, Operators Ratio*

Number of production servers per NOC person:

Per FTE	Servers (win, linux, unix)
25 percentile	97 servers
Median	148 Servers
75 percentile	210 Servers



- Organizations will have generally 1 person in the day and 2 people at evening\night (if organization is used to have changes during the night)
- Huge variety of NOC responsibility:
 - ❖ Look only at monitoring screens
 - ❖ Batch operations (both production Control-M, FTP, and infra such as backup)
 - ❖ Change management
 - ❖ Service desk during night
 - ❖ Physical room – electricity, cooling
- Mostly 7*24 with\without Saturday
- In organizations with no NOC the Service Desk will have to look at the monitoring screens
- MF AS/400 not included in count

Source: STKI

Datacenter used space- production

- Net size of Datacenter vs. gross size of Datacenter

Per FTE	Percent of DC used
25 percentile	50%
Median	73%
75 percentile	81%

- When considering that at least 20% of DC room is needed to “move and breath” the conclusion that 75% of organization has used all space in their DC!
- Based on last year’s data

Source: STKI

DRP Datacenter space vs. Prod Datacenter space

- Net size of Datacenter vs. gross size of Datacenter
- Based on last year's data

Per FTE	Percent of DC used
25 percentile	28%
Median	41%
75 percentile	71%

Source: STKI

DBA Ratios

- Number of open applications (all instances – dev, test, prod counted as 1) supported by DBA (very big variations... the developer ratios might be better)

Per FTE	# of applications
25 percentile	20
Median	25
75 percentile	40



Source: STKI

DBMS Support Ratios

- Number of developers (in the Open) supported by DBA FTE

Per FTE	# of developers
25 percentile	11
Median	20
75 percentile	26

Source: STKI



ADBA vs. DBA ratios

- What is the ratio of Application DBA from total DBA's (in the Open):

Per FTE	ADBA/total DBA
25 percentile	30%
Median	33%
75 percentile	42%

Source: STKI



ESM (Enterprise System Management) support ratio

- Numbers of servers in Open (Win, Linux, Unix) covered by ESM team (including BSM, CMDB, etc. – if implemented)
- MF AS/400 not included in server count – significant bias. Best metric is “per CI monitored...”.

Per FTE	# of Servers (all)
25 percentile	220
Median	320
75 percentile	500



Source: STKI

ESM (Enterprise System Management) support ratio per CI

- Numbers of CI (Configuration Item) in ESM covered by ESM team (including BSM, CMDB, etc. – if implemented)
- MF AS/400 not included in server count – significant bias. Best metric is “per CI monitored...”.
- The big variety demonstrates the large difference in ESM status (quality and type of monitoring)

Per FTE	# of Servers (all)
25 percentile	963
Median	3000
75 percentile	5417



Source: STKI

Israel – DW/BI Staffing ratio



- ▶ Average Israeli ratio: BI/DW is **6% of IT department** (compared to 4.3% abroad - source: Computer Economics)
- ▶ **An average of 8 DW/BI employees in Israeli organizations**
- ▶ Insourcing trend continues
- ▶ But organizations will look for outside help in analytics

ERP Staffing ratios in Israel



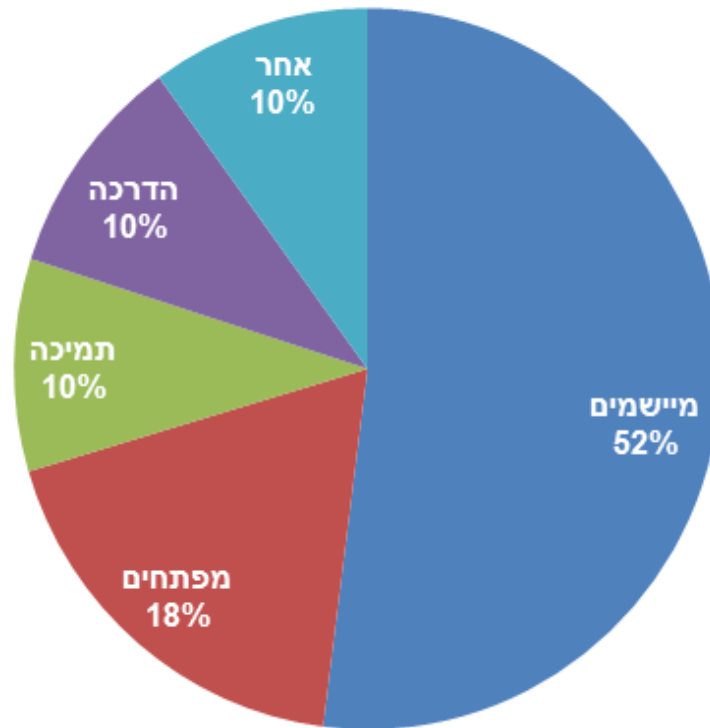
- ▶ Average size of Israeli ERP department:
15 employees
- ▶ Clear link between degree of customizations, nature of implementation and size of ERP staff (next slides)
- ▶ Average ratio ERP staff / ERP users: **1: 52 - 1:80**

Ratio abroad: 1:31 in multiple versions installations, 1:40 for single version installation (Source: Computer Economics)

ERP Staffing is (still) an issue

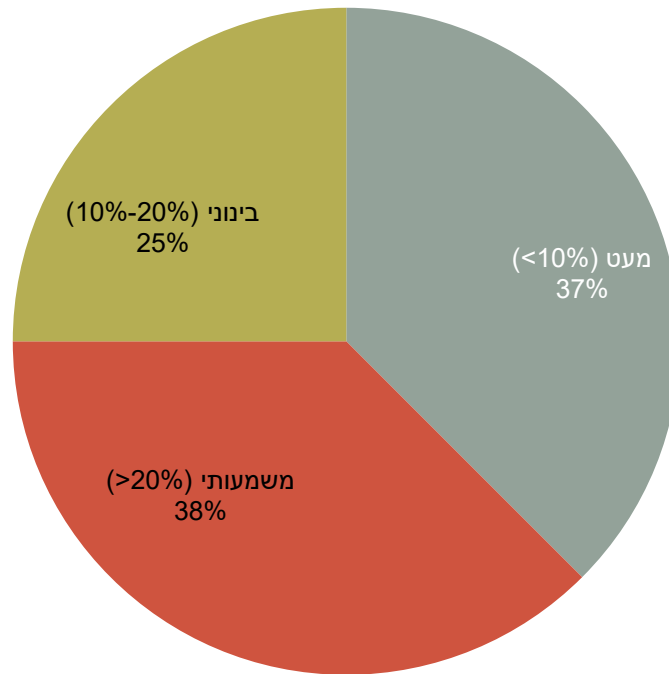
On average, the ERP staff accounts for 10% of the total IT staff

התפלגות תפקידים במחלקת SAP



Size of ERP department depends on:

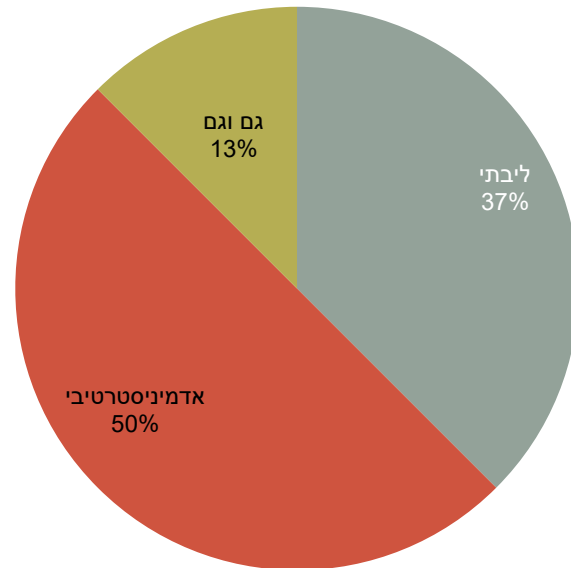
מידת השינויים שנעשו בחבילה



Source: STKI

And on type of use:

אופי היישום - ליבתי או אדמיניסטרטיבי

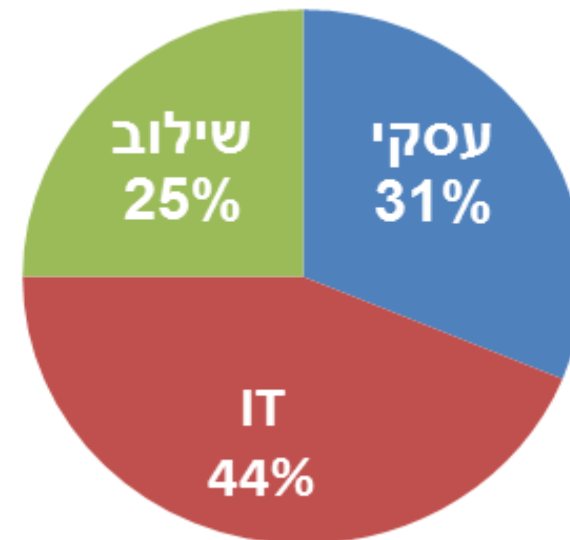


Source: STKI survey

Portal staffing ratio

On average, the Portal staff accounts for 5.3% of the total IT staff

האם תחום הפורטל הארגוני יושב תחת אגף ה-IT או תחת אגף/מחלקה עסקית בארגון?



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OCIO Staffing Ratio



- Average size of Israeli OCIO department: 3-7
 - ~4 % of IT staff (between 0.5% - 10%!)
 - Compared to ~7-14.6% in global orgs



OCIO department has doubled itself in recent years