



7 Kasım 2012 - Çırağan Palace Kempinski

IBM Connected 2012 Istanbul

Learn. Collaborate. Innovate.

VERİ ODAKLI YÖNETİM Storwize V3700

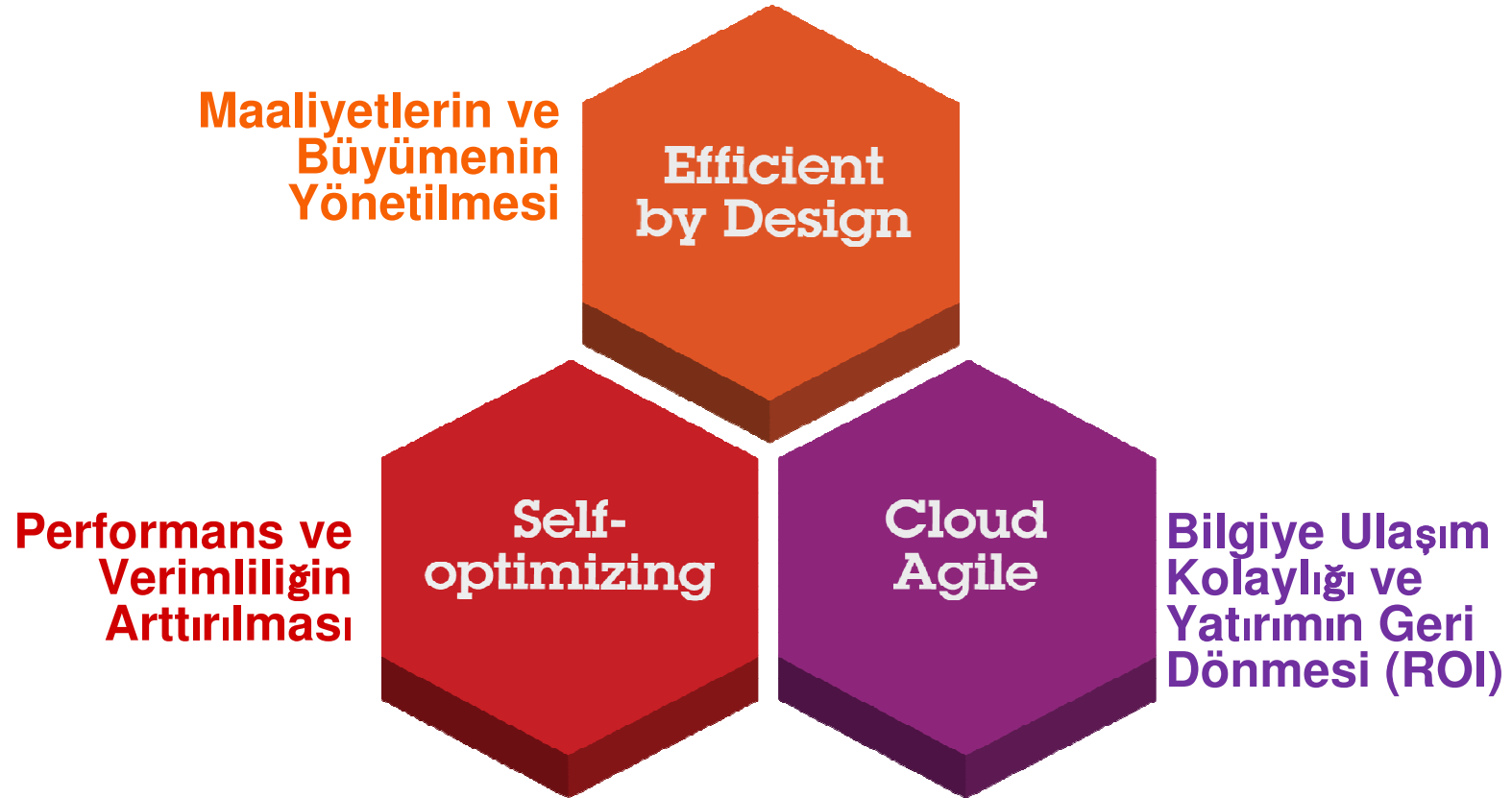
SELÇUK BAŞDEMİR

Kıdemli Ürün Yöneticisi, Storage

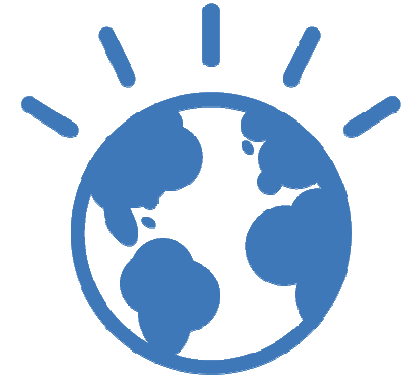
IBM TÜRK



Storwize Sistemleri: Akıllı Veri Yönetimi



Storwize Ailesinin Yeni Üyesi



Orta Seviye
Storage'ta Yeni
Standart
IBM Storwize V7000

Unified Storage
Active Cloud Engine
Storwize V7000 Unified

Verimli Giriş Seviyesi
Storage
Storwize Entry

October 2010

October 2011

4Q 2012



IBM'in Inovasyon Mirası ve Veri Depolamadaki Liderliği

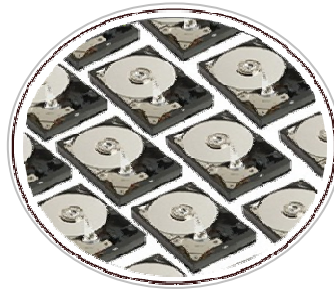
IBM 18 Yıldır Teknoloji Patentleri ile Dünya Lideri



1956

First magnetic hard disk drive

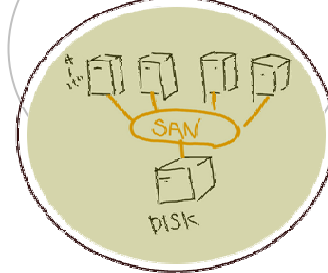
IBM 305 RAMAC (Random Access Method of Accounting and Control). Capacity of the 305's 50 two-foot diameter disks was 5 megabytes.



1993

First distributed storage

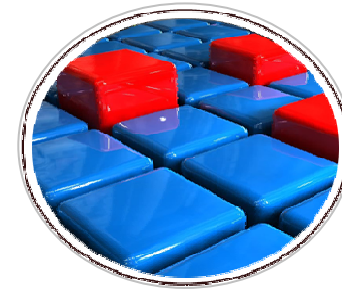
IBM 9337 Disk Array Subsystem is first reliable storage system using multiple, low-cost disk drives as single logical unit.



2003

Storage network virtualization

IBM SAN Volume Controller provides single, centralized point of control over data in heterogeneous storage environments.



2010

First Intelligent data placement

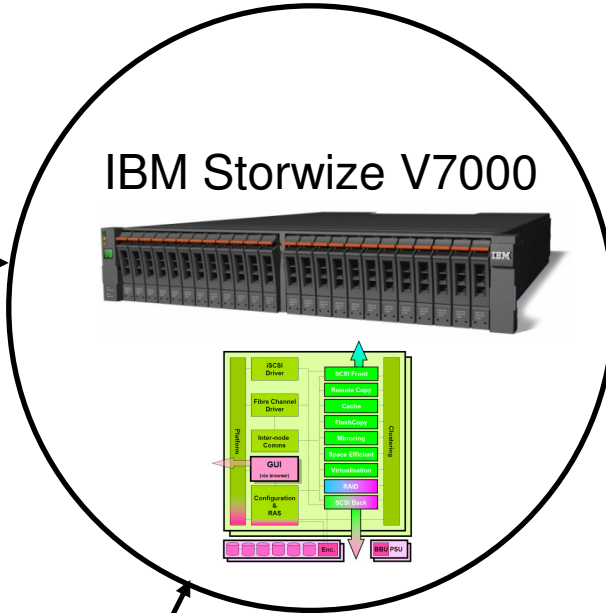
IBM System Storage Easy Tier first to automatically move most active data to faster solid-state drives for real-time analysis and less urgent data to tape.

Storwize V7000 Mimarisi



SVC:

- Virtualization
- Advanced Copy Services
- High Availability
- Data Migration
- Application Integration



DS8000:

- Extent Architecture
- RAID Protection
- EasyTier

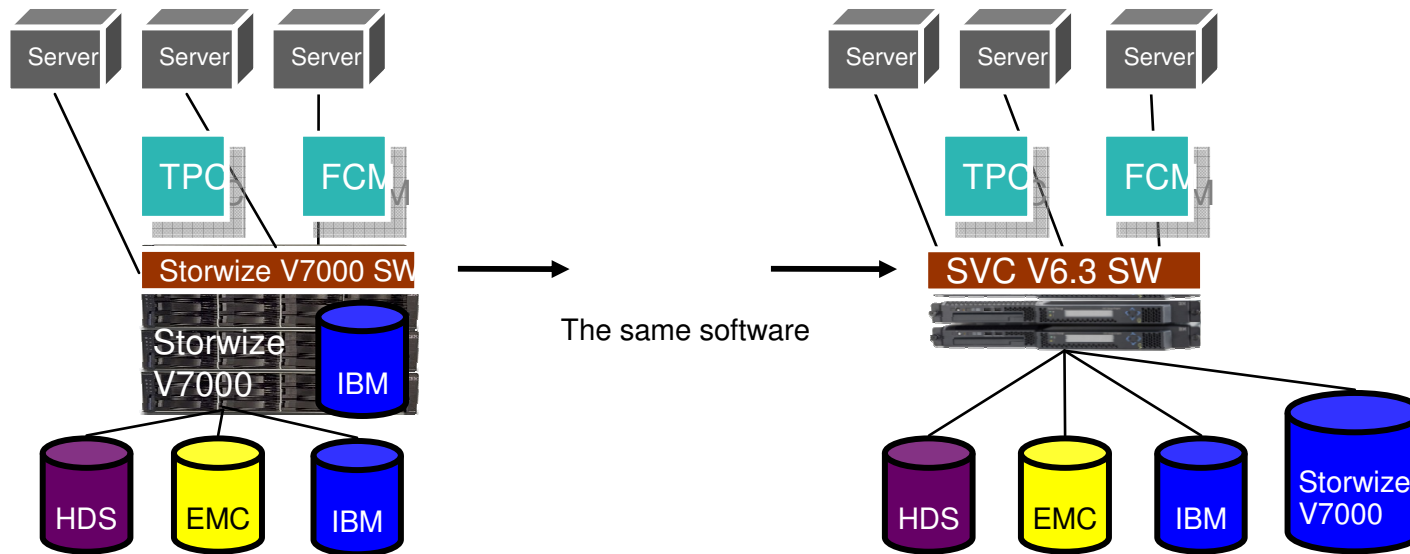
XIV:

- Ease of use
- GUI design



Storwize V7000 Mimarisi

22.500+
SVC Node Sold
in 8 years

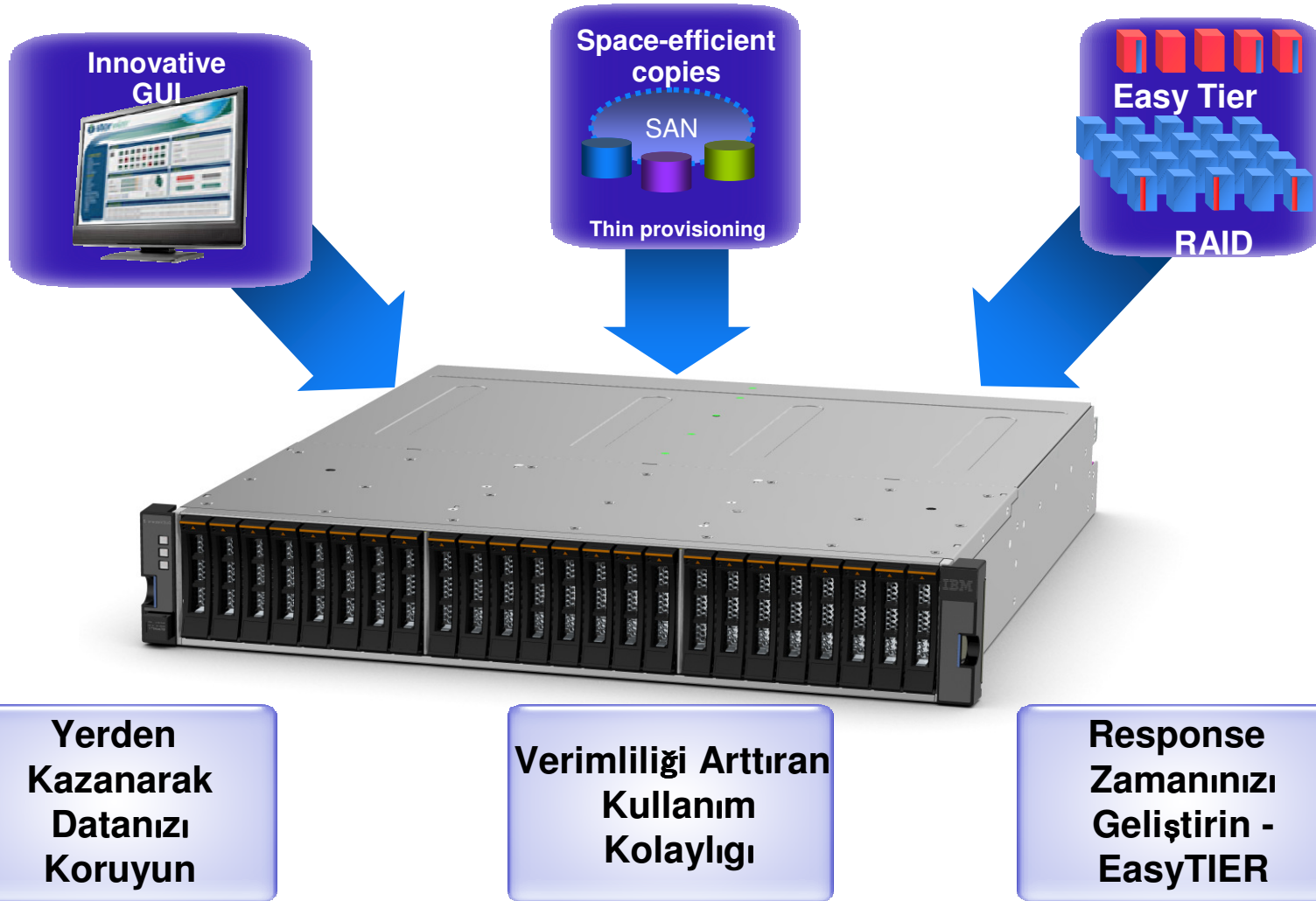


Bir Yıl Sonra: Teknoloji Entegrasyonu Devam Ediyor

Storwize V7000 Unified Storage



Storwize V3700



IBM'in Akıllı Depolama Ürün Ailesi

Entry/Midrange Storage Sistemleri

- **Storwize Family**
 - Storwize V7000
 - Storwize V7000 Unified
 - **Storwize V3700**
- **DS Family**
 - DS3500
 - DS5000

Enterprise Storage Sistemleri

- **DS8000 Family**
 - DS8700
 - DS8800
- **XIV Family**
 - XIV
 - XIV Gen3

Dosya Tabanlı Storage Sistemleri

- **Scale-Out NAS (SONAS)**
- **N series**
 - N3000
 - N6000
 - N7000

Backup Sistemleri

- **TS Family**
 - TS2000
 - TS3000

“Verimlilik”

- **Real-Time Compression**
- **Easy Tier**
- **SAN Volume Controller (SVC)**
- **Active Cloud Engine**

Storage Management Software

Tivoli. software

FlashCopy Manager (FCM)

Tivoli Productivity Center (TPC)

Tivoli Storage Manager (TSM)

Tivoli Key Lifecycle Manager

Storwize V3700 Sistemi

IBM Giriş Seviyesi İhtiyaçlara Akıllı Storage

- **Verimli**
 - Storwize V7000 tabanlı kolay kullanıcı arayuzu
 - Internal Virtualization ve Thin Provisioning
 - FlashCopy Entegrasyonu
- **Kendini Optimize Edebilen**
 - Easy Tier² ile disk katmanlama teknolojisi
 - Turbo Performance³ ile 30% Performans Artışı
- **Bulut Teknolojisine Uyum**
 - Küçük Başlayın, Akıllı Büyüyün
 - Kesintisiz Migration Entegrasyonu
- **Düşük fiyat**
 - Giriş Seviyesi ürünler için düşük fiyat.11K⁴



Giriş Seviyesi IBM Storwize Sistemleri

- **Enclosures** sadece 2U'da 12 adet LFF (3.5") yada 24 adet SFF (2.5") disk seçenekleri
- **Kontrol Üniteleri:** Dual ve Aktif Aktif çalışan kontrol üniteleri
 - 8GB Cache (4GB per controller) standart olarak; opsiyonel olarak 16GB'a upgrade edilebilir
 - 1Gb iSCSI standart host portları ve opsiyonel olarak 8Gb FC yada 10Gb iSCSI/FCoE yada SAS* host portlarına upgrade edilebiliyor.
- **Genişleme Çekmeceleri:**
 - Tek kontrol ünitesine 4 adete kadar disk çekmecesi bağlama imkanı
 - 120 adet SFF yada 60 LFF adet disk'e kadar genişleme
 - Tek bir disk çekmecesinde karışık SAS ve SSD disk seçenekleri
- **RAID Seviyeleri** RAID 0, 1, 5, 6, and 10
- **Redundant, hot-swappable bileşenler** (i.e., power supplies and fans)
- **AC power** (110 to 240 V)
- **Opsiyonel Yazılımlar***: Easy Tier, Remote Mirroring, 64 adede kadar FlashCopy hedefleri, Turbo Performance



**Planned to announce 1H2013 (IBM Plans are subject to change without notice)*

Storwize V3700 Disk Opsiyonları

- Drives of same form-factor may be freely intermixed without limitation in an enclosure

Small form-factor (SFF, 2.5-inch) HDD	15,000 RPM	146GB, 300GB SAS
	10,000 RPM	300GB, 600GB, 900GB SAS
	7,200 RPM	500GB, 1TB Nearline SAS
Small form-factor (SFF, 2.5-inch) SSD	200GB, 400GB E-MLC SAS	
Large form-factor (LFF, 3.5-inch) HDD	7,200 RPM	2TB, 3TB Nearline SAS

Storwize V3700: 2U24



Storwize V3700: 2U12



Arkadan Görünüş – Kontrol Ünitesi



Arkadan Görünüş – Genişleme Çekmecesi





TEŞEKKÜRLER

