Servergraph Overview

IBS
Sofia | 22-11-2016
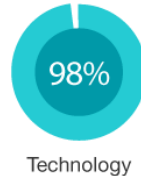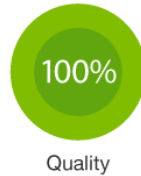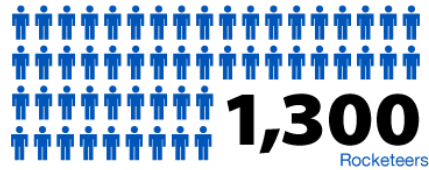
Simon Bes- Account Executive

Rocket

Software that Matters

■ = Software that matters + 🥇 Putting you first + ❤️ Treating you with humanity

It's not rocket science.
It's Rocket Software.

By the Numbers

1,300 Rocketeers

20 R&D Labs

800 Engineers

100+ Products

- **100%** Quality
- **98%** Technology
- **100%** Flexibility
- **96%** Performance
- **100%** Communication
- **100%** Ethics & Integrity

Corporate Stats

25 Years of Growth

10M End Users

15,500 Customers

1,600 Partners

Solutions

- ALM & DevOps
- Backup & Archive Mgmt.
- BI & Analytics
- B2B Supply Chain Integration
- Data Migration
- Data Virtualization
- DBMS & Application Servers
- Enterprise Performance Mgmt.
- Enterprise Search
- Mainframe
- Modernization
- Network Management
- Terminal Emulation

Areas of Expertise

- Security
- Analytics
- Application Development
- Application Platforms
- Business Intelligence
- Data
- DevOps
- Infrastructure
- Managed Services
- Search

Serving Our Global Customers: Rocketeers Around the World

Providing 24 x 7 "Follow the Sun" Support

Key Industries

Financial Services · Retail · Manufacturing · Healthcare · Technology · Transportation · Government · Machinery · Chemicals · Insurance · Consulting · Education

Our Commitment to You

Make working with Rocket easy, enjoyable, and engaging

Continually solicit and act on customer and partner feedback

Build products and deliver solutions that meet and exceed expectations

Platforms

z Systems · Power · Mobile · Cloud

Our Core Values

Customers and Partners first.

One Rocket

Rocketeers are the difference.

ROCKET SOLUTIONS

Application Development & DevOps
Automates every step of your software change process to simplify application change and release management

ALM & DevOps

BI & Analytics
Gain decisive business insight through both self-service data preparation and discovery and other application developer-focused products

BI & Analytics

Data Migration
Automates and encompasses all aspects of data migration for mainframe tape data while maintaining complete data integrity

Data Migration

DBMS & Application Servers
Provides proven data management technologies for enterprise applications, running on desktops, Web, mobile, & cloud

DBMS & Application Servers

Backup & Archive Mgmt.

Archive & Backup Management
Provides the retention, monitoring, reporting, alerting, and automation required to proactively manage and protect your organization's data assets

B2B Supply Chain Integration

B2B Supply Chain Integration
Provides EDI, file exchange, and workflow automation, to ensure IP protection, system interoperability, and regulatory compliance

Data Virtualization

Data Virtualization
Enables you to move your applications and analytics closer to your mainframe data, making it available regardless of location, format, or interface

Enterprise Search & Text Analytics
Provides a platform for gathering, indexing, and searching both structured and unstructured data – making the information you depend on more accessible and useful

Enterprise Search

Modernization
Leverage agile APIs to expose existing applications as new business services and user experiences with less cost and complexity

Modernization

Terminal Emulation
Provides lower cost terminal emulation with a secure, slim, and powerful solution for desktop, Web, and mobile interfaces

Terminal Emulation

Enterprise Performance Mgmt.

Enterprise Performance Management
Helps you strategically define, manage, and communicate key objectives and KPIs while empowering teams to understand performance, and drive continuous improvement

Mainframe

Mainframe
Helps organizations meet business objectives and maximize and modernize their mainframe investments

Network Management

Network Management
Provides end-to-end management of business-critical infrastructure, across traditional management boundaries

ROCKET PRODUCTS

Application Development & DevOps
Rocket Aldon Lifecycle Mgr.
Rocket Aldon Community Mgr.
Rocket Aldon Deployment Mgr.
Rocket Aldon Web Portal

ALM & DevOps

BI & Analytics
Rocket Discover
Rocket CorVu NG
Rocket CorBusiness
Rocket CorPortfolio
Rocket HyperVu

BI & Analytics

Data Migration
Rocket OpenTech
Rocket TapeCopy
Rocket Virtual Data Recovery

Data Migration

DBMS & Application Servers
Rocket UniVerse
Rocket UniData
Rocket SB/XA
Rocket D3
Rocket M204

DBMS & Application Servers

Backup & Archive Mgmt.

Archive & Backup Management
Rocket Servergraph
Rocket Arkivio
Rocket iCluster

B2B Supply Chain Integration

B2B Supply Chain Integration
Rocket TRUfusion
Rocket Edx
Rocket TRUcentrix
Rocket TRUexchange
Rocket R/Link

Data Virtualization

Data Virtualization
Rocket Data Virtualization
Mainframe Data Service on Bluemix

Enterprise Search & Text Analytics
Rocket Folio
Rocket NXT
Rocket Search

Enterprise Search

Modernization
Rocket Mobile
Rocket LegaSuite
Rocket API

Modernization

Terminal Emulation
Rocket BlueZone
Rocket Passport

Terminal Emulation

Enterprise Performance Mgmt.

Enterprise Performance Management
Rocket CorRisk
Rocket CorStrategy

Mainframe

Mainframe
Rocket MXI
Rocket Catalog Recovery Plus
Rocket Performance Essential
Rocket DASD Backup Supervisor
Rocket HSM Reporter Manager
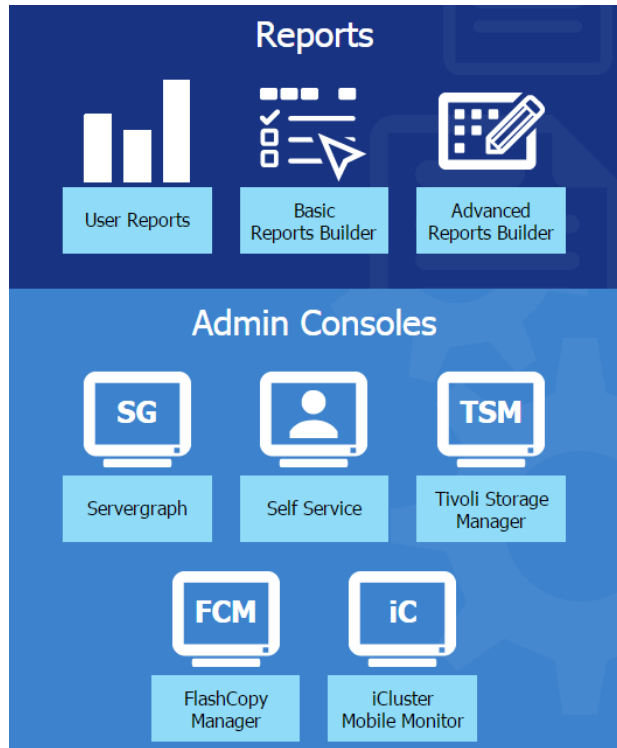Rocket FastAudit

Network Management

Network Management
Rocket NetCure
Rocket KBM

Agenda

- Servergraph introduction

- Live demo (on request)
  - *User Reports*
  - Basic Reports Builder
  - Advanced Reports Builder
  - TSM Admin Console

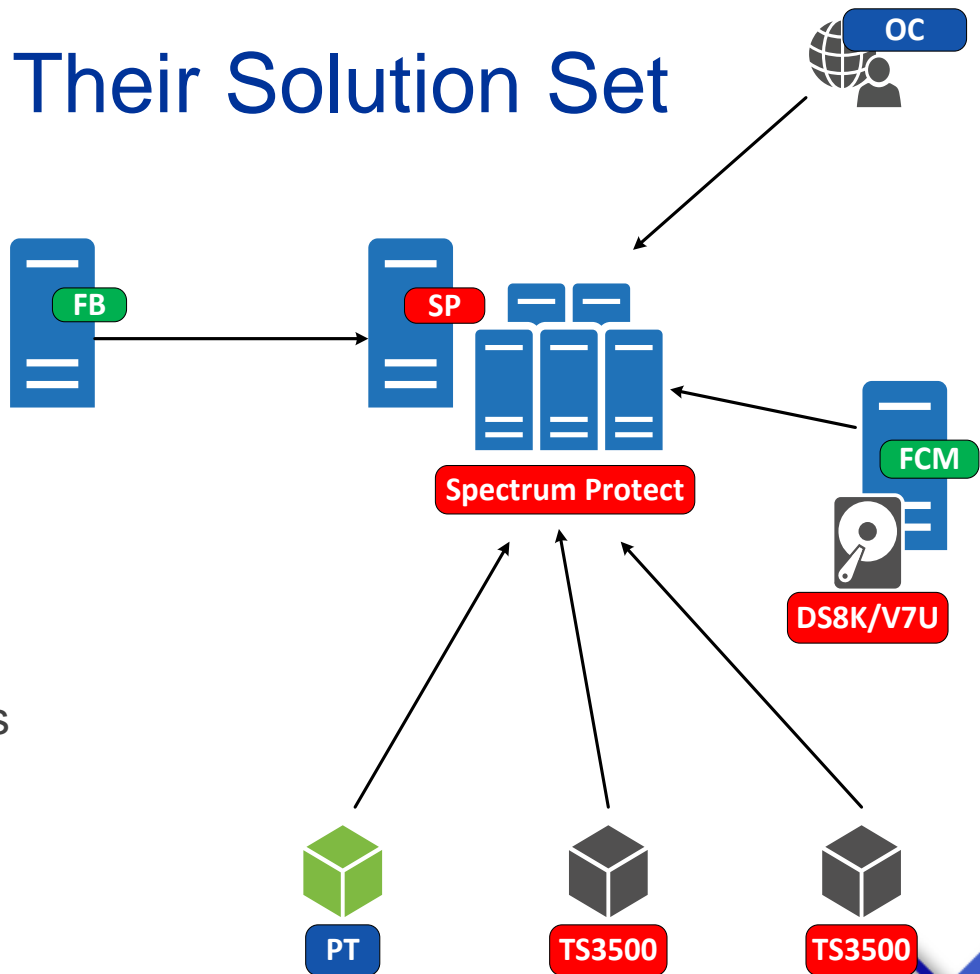- Questions

Servergraph tagline

- Enterprise-wide End-to-End Reporting for the Backup & Storage infrastructure

- Capacity Planning

- Forecasting

- Trending

- Chargeback

- SLA/RPO/RTO

- Recoverability

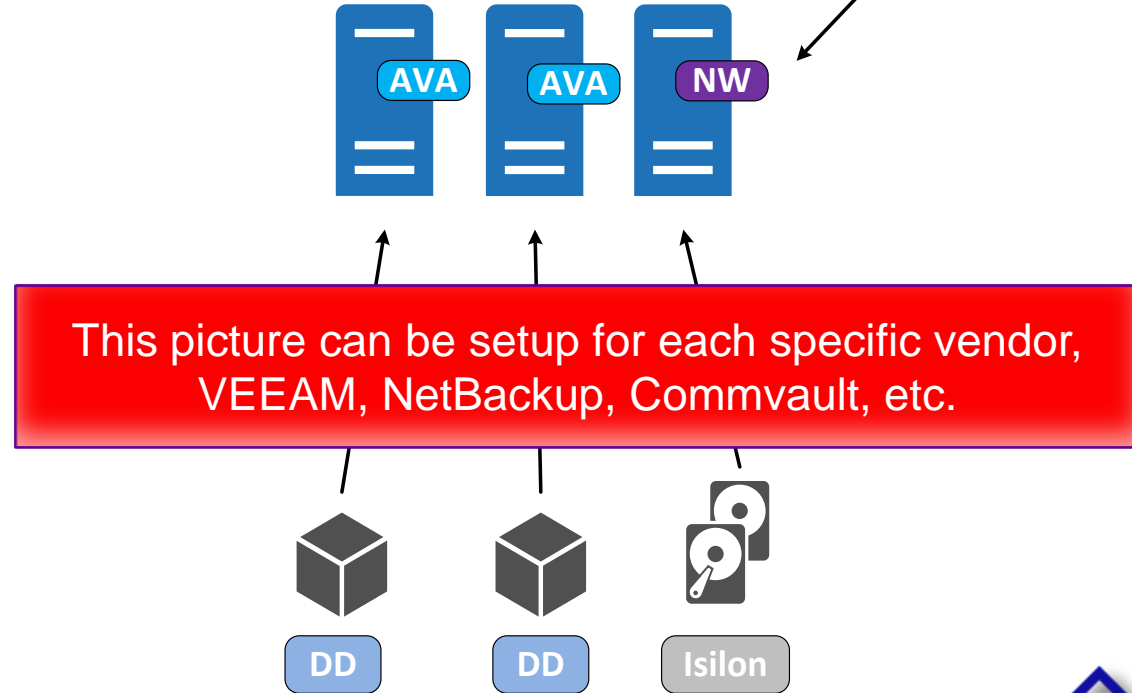- Auditing/Compliance

Vendors Advertise Their Solution Set

- Spectrum Protect
- Spectrum Protect Snapshot
- ProtecTIER
- TS3xxx/TS4500 Tape Libraries

Vendors Advertise Their Solution Set

DPA

Rocket

EMC²

- Avamar
- Networker
- Data Domain
- Disk Storage

AVA **AVA** **NW**

This picture can be setup for each specific vendor, VEEAM, NetBackup, Commvault, etc.

DD **DD** **Isilon**

But you only want the best

- No vendor lock down
- Using the best available technologies
- Using a cost effective solution
- Encouraging standards, fair vendor competition

- So your reality is really very different

Customers use mature solutions

- Spectrum Protect (TSM)
- Spectrum Protect Snapshot
  - ➢ With non IBM hardware
- Data Domain
- TS3500/4500 Tape Libraries
- Direct RMAN backups

BE

SP

FCM

Spectrum Protect

HDS

DDBoost

DD

RMAN

TS3500
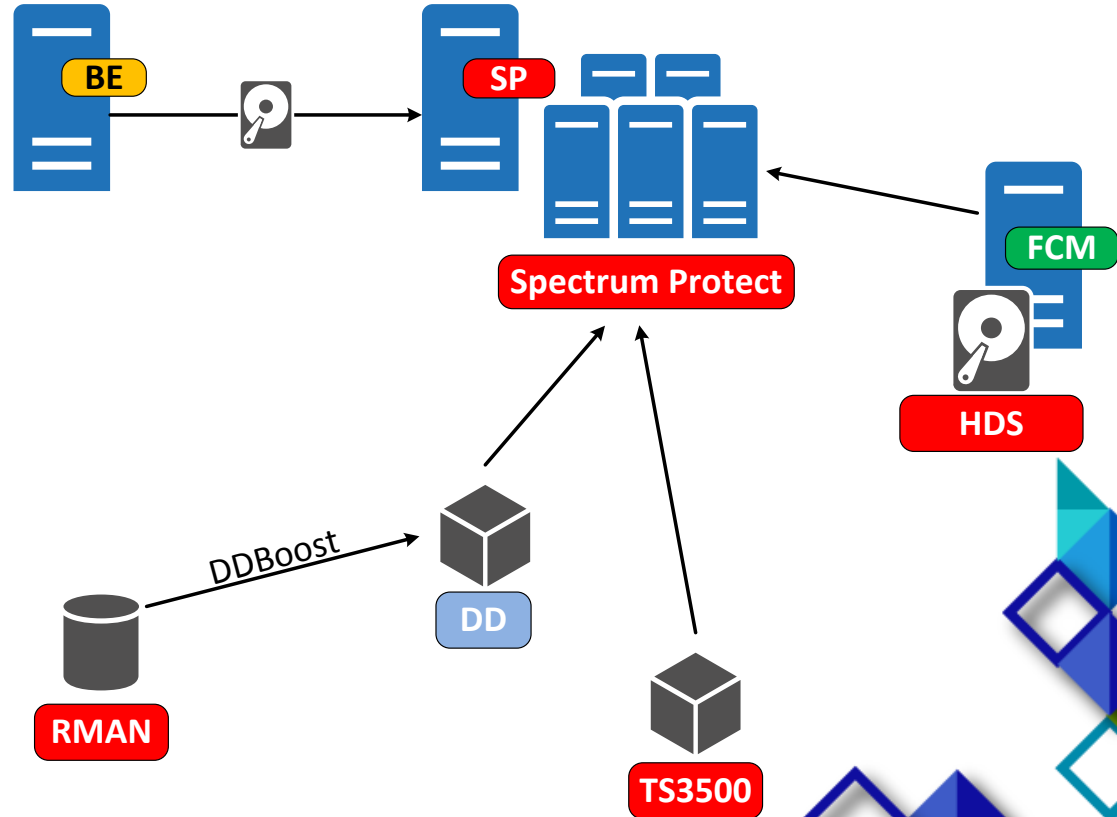
But you only want the best

- Challenge is then the reporting
- Vendors do not offer a single console that cover all their applications
  - ➤ IBM
    - o Operations Center: Spectrum Protect
    - o TSR: Tape Library
    - o *None*: SPS for Unix
    - o *ptcli* and admin console: ProtecTIER

Bob's happy past-life

- Bob was a Storage Admin
  - To manage the backups, he used:

    - a set of Spectrum Protect machines
    - 3584 tape libraries
    - a set of scripts to automate some tasks and aggregate results

Spectrum Protect
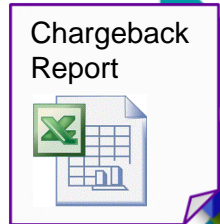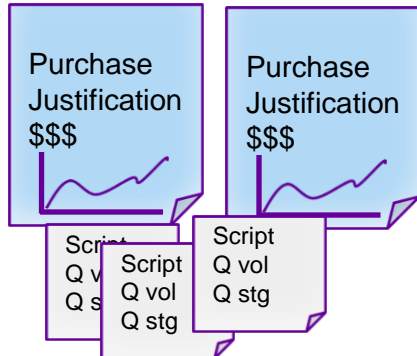
DISK

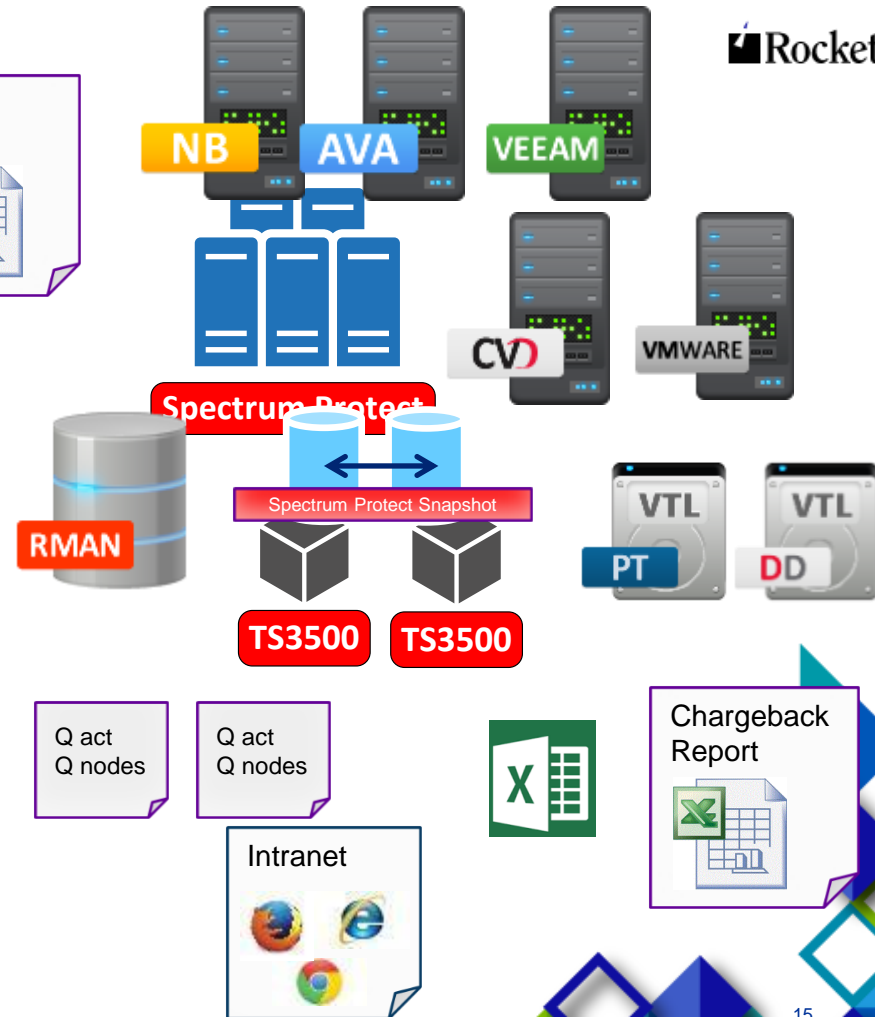**TS3500**   **TS3500**

Q act
Reg nodes

Q act
Reg nodes

Life was good! ☺

Bob's challenges

Audit Report

Audit Report

Rocket

NB   AVA   VEEAM

CV   VMWARE

Spectrum Protect

Spectrum Protect Snapshot

RMAN

TS3500   TS3500

VTL   VTL
PT   DD

Lots of new components are added, new technologies, more end-user requests. Too complex.

Purchase Justification $$$

Purchase Justification $$$

Script Q vol Q stg

Script Q vol Q stg

Script Q vol Q stg

Q act Q nodes

Q act Q nodes

Intranet

Chargeback Report

Common Data Protection Issues

Data Recoverable

Auditable

In Compliance

Data Protected
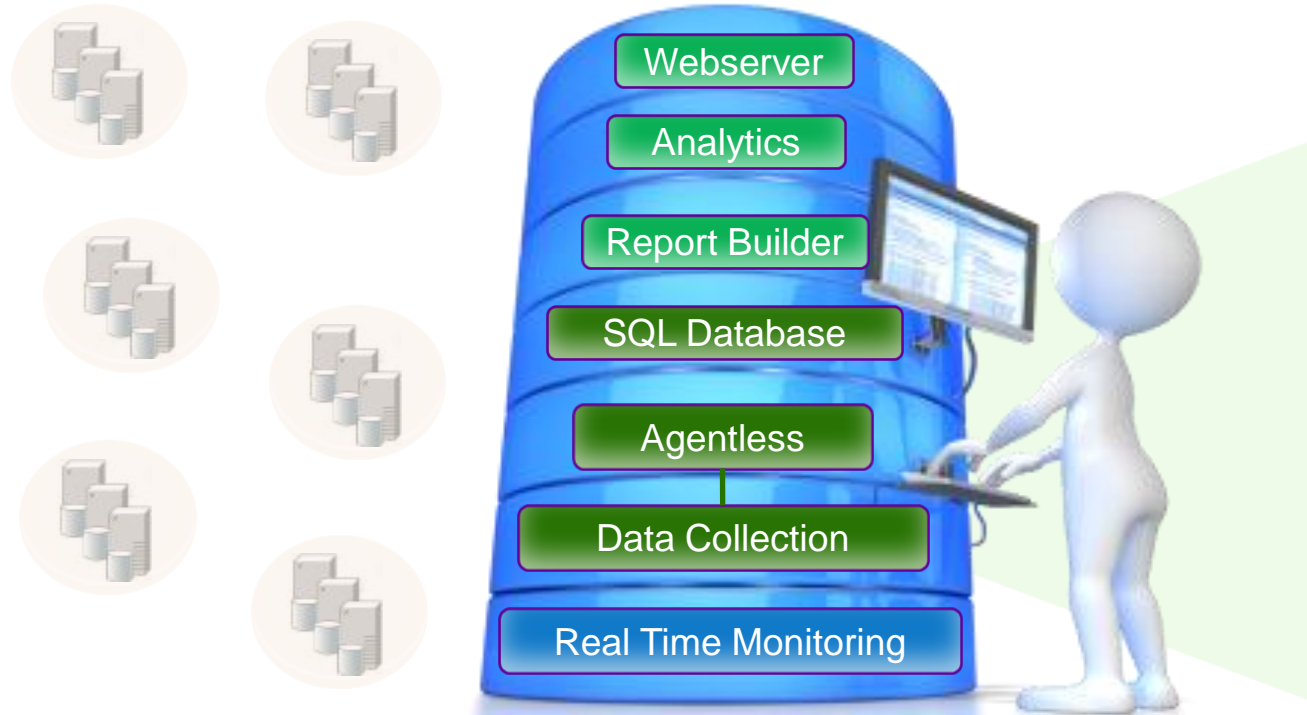
Required Resources

Within Limits

Rocket Servergraph Professional *V7.9*

- Reporting, Monitoring and Alerting

- Single console for 36+ products (and counting)

- Independent (meta)data retention capabilities

- Local and cloud solution

- Administrative GUI's for IBM Spectrum Protect, IBM Spectrum Snapshot and Rocket iCluster
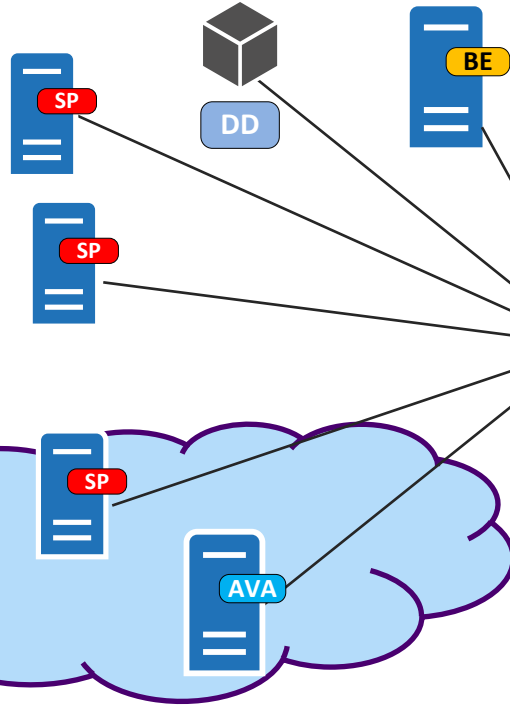
Servergraph Main Components

Webserver

Analytics

Report Builder

SQL Database

Agentless

Data Collection

Real Time Monitoring

One application for multiple audiences

Company IT Infrastructure

Executives review overall status…

Mgt Dashboard

Intranet shows status…

Reports Widgets
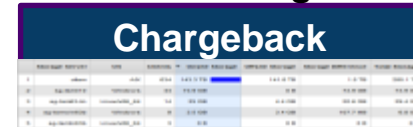
HR, IT or any group check its storage usage and and backup status…

User Reports

TSM Admins administer…

TSM Admin

Finance re-assigns costs…

Chargeback

Servergraph – local collection
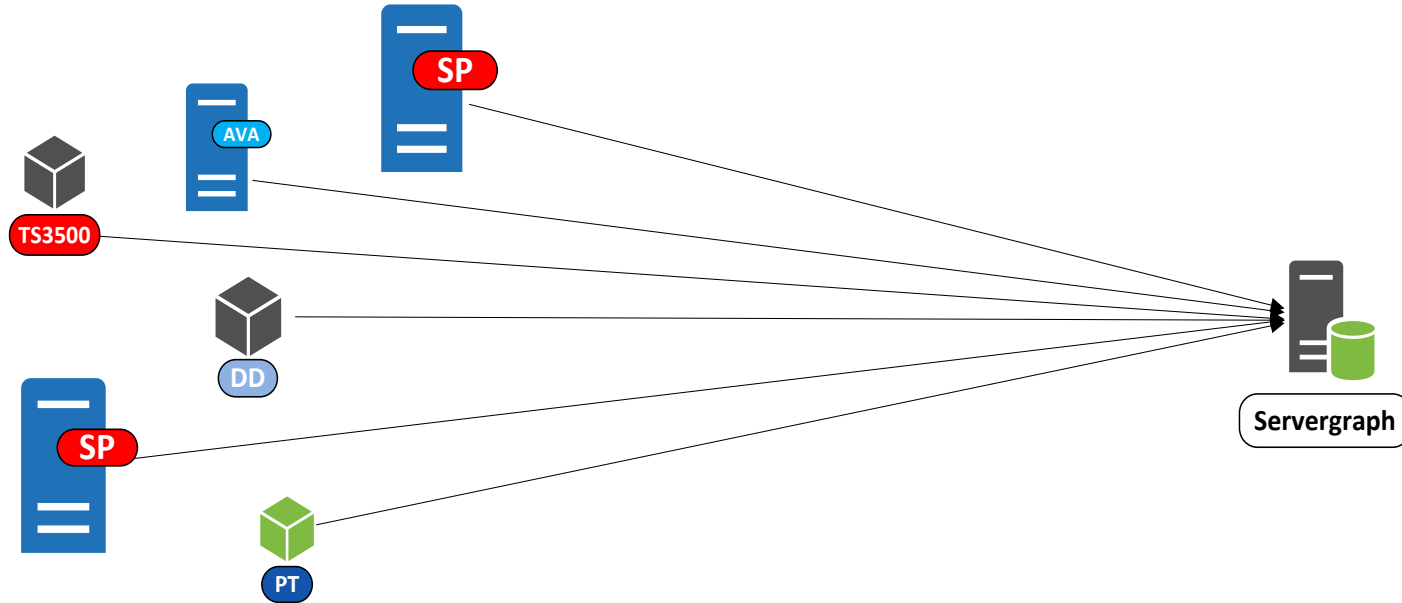
Typical customer environment – all devices are on premises or
directly connected through LAN/WAN

Servergraph for MSP's – Cloud Connector

Customer A

AVA
DD
Cloud Connector

Customer B

SP
PT
Cloud Connector

Customer C

SP
TS3500
Cloud Connector

HTTPS
HTTPS
HTTPS

Servergraph

Data is collected locally per customer through CC and forwarded to the central SG machine, MSP is running on prem. No need for SG machine for each customer. Through scopes, correct data visibility is ensured.
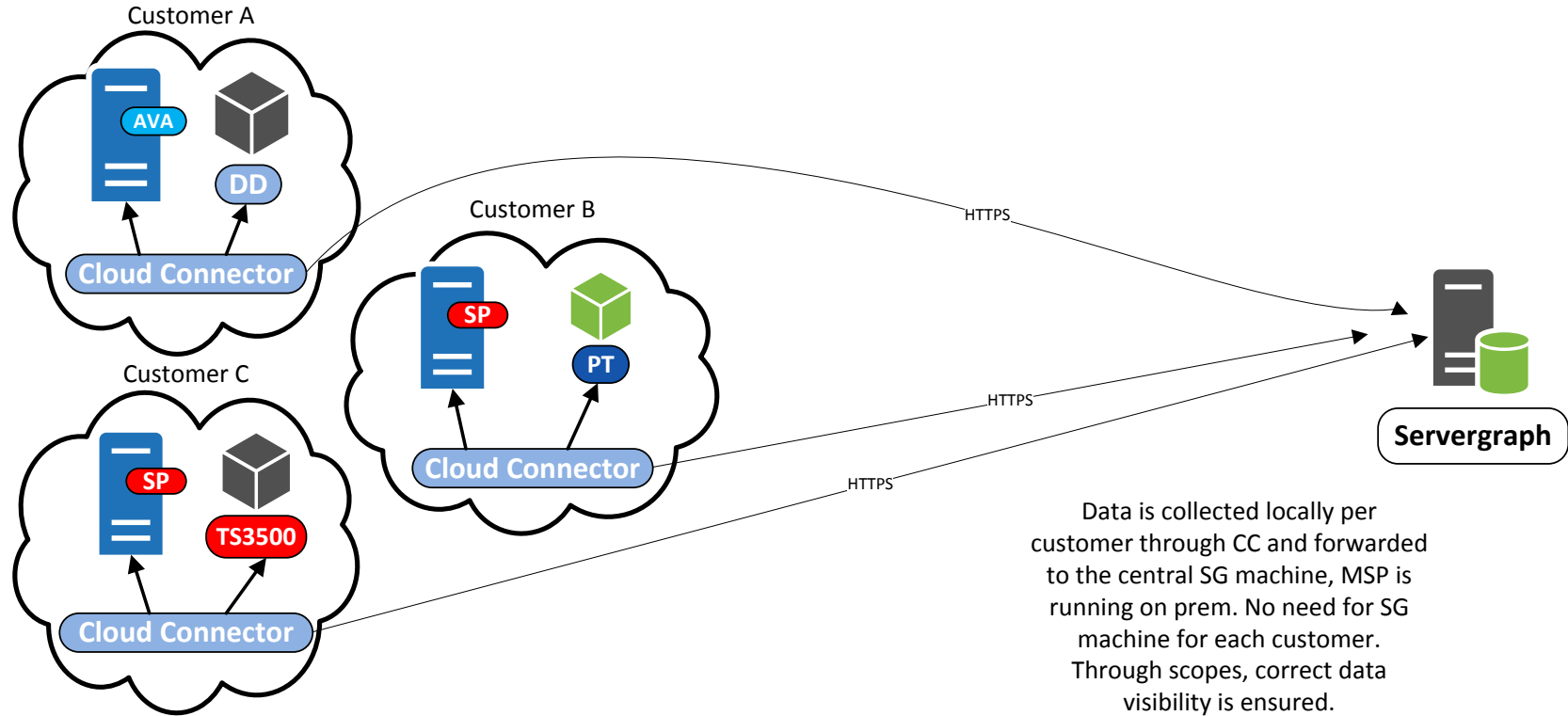
What is in Servergraph?

ALERTS

MSGs • Threshold • Availability

Dashboard • Email • SNMP • Paging

REPORTS

Global Dashboard

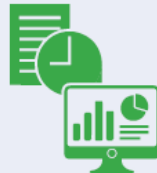| Servers | Clients | Storage |

Detail Dashboard

Detail Reports (+300)

| Trends | Forecasts | Chargebacks |

Data Visibility (Scopes)

REPORT BUILDER

Schedules Reports

Builds Customized Reports

User Dashboard

USER INTERFACES

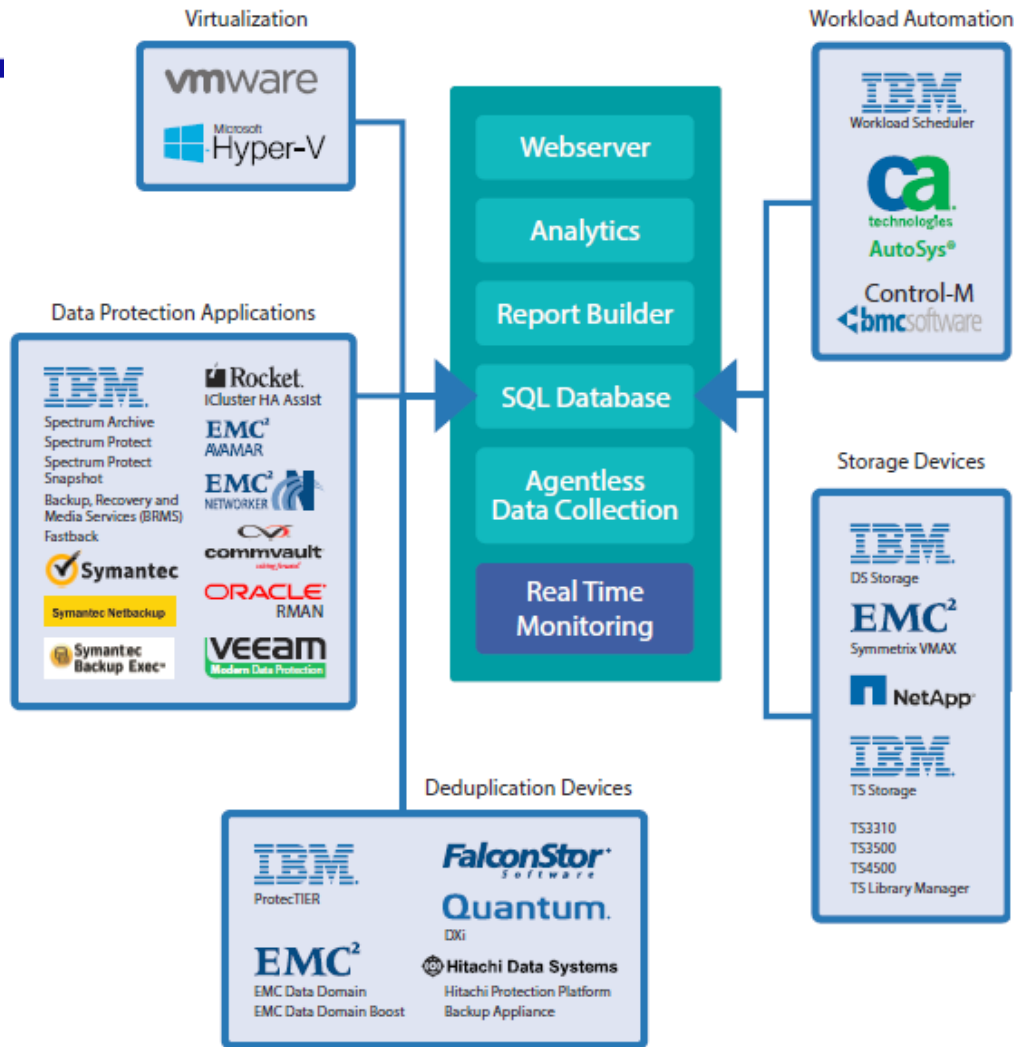Administrative Interfaces for Day-to-Day Administration

| Spectrum Protect (TSM) Admin Console | Servergraph Console |
| Spectrum Protect Snapshot Console | Customized Console |

SG "engine" supports

Servergraph supports all key data protection assets (7.8)

Data Protection Applications
- IBM Spectrum Protect
- IBM Spectrum Protect Snapshot
- IBM FastBack
- EMC² NetWorker
- EMC² Avamar
- Veeam
- Symantec
- Symantec NetBackup
- Symantec Backup Exec
- IBM Spectrum Archive
- Rocket iCluster
- Commvault
- Oracle RMAN
- i for Business BRMS
- Microsoft SQL Server

Deduplication devices
- IBM ProtecTIER
- EMC² data domain
- HITACHI Protection Platform
- FalconStor Software
- Quantum DXi
- EMC² DATA DOMAIN BOOST

Storage Devices

DISK STORAGE | IBM SYSTEM STORAGE – TAPE FAMILY
- IBM Spectrum Scale
- IBM DS Storage
- EMC² Symmetrix VMAX
- NetApp
- IBM TS3310
- IBM TS3500
- IBM TS4500
- IBM TS Library Manager
- IBM Spectrum Archive

Workload automation
- IBM Workload Scheduler
- CA technologies AutoSys
- Control-M bmcsoftware

Virtualization
- vmware
- Microsoft Hyper-V

Administrative interfaces
- Rocket Servergraph
  - Spectrum Protect (TSM) Admin Console
  - Servergraph Console
  - Spectrum Protect Snapshot Console
  - Customized Console

Reducing time, effort and cost

Product Investment	**Savings on product licenses + maintenance**
Time	**Savings on Operator and Admin time**
HW Resources	**Savings on storage capacity Tempering the storage growth**

Product Investment savings

- One tool

- One installation

- One learning curve

- One maintenance update

- One support portal

Not having to buy or continue

- EMC Data Protector Advisor
- Bocada
- Apatare
- TSM Studio
- TSMManager
- OpsCenter Analytics
- Tivoli Data Warehouse
- Veeam licensed edition
- Etc….

- HOME SCRIPTING

Time savings

- **Problem noticing (tracking/solving)**
  - TBFS (time between failure and solution)

- **Reports producing for operator, administrator, management, auditors and customers**

- **Trending, Forecasting and Capacity management**

- **No adjustments because of product updates**

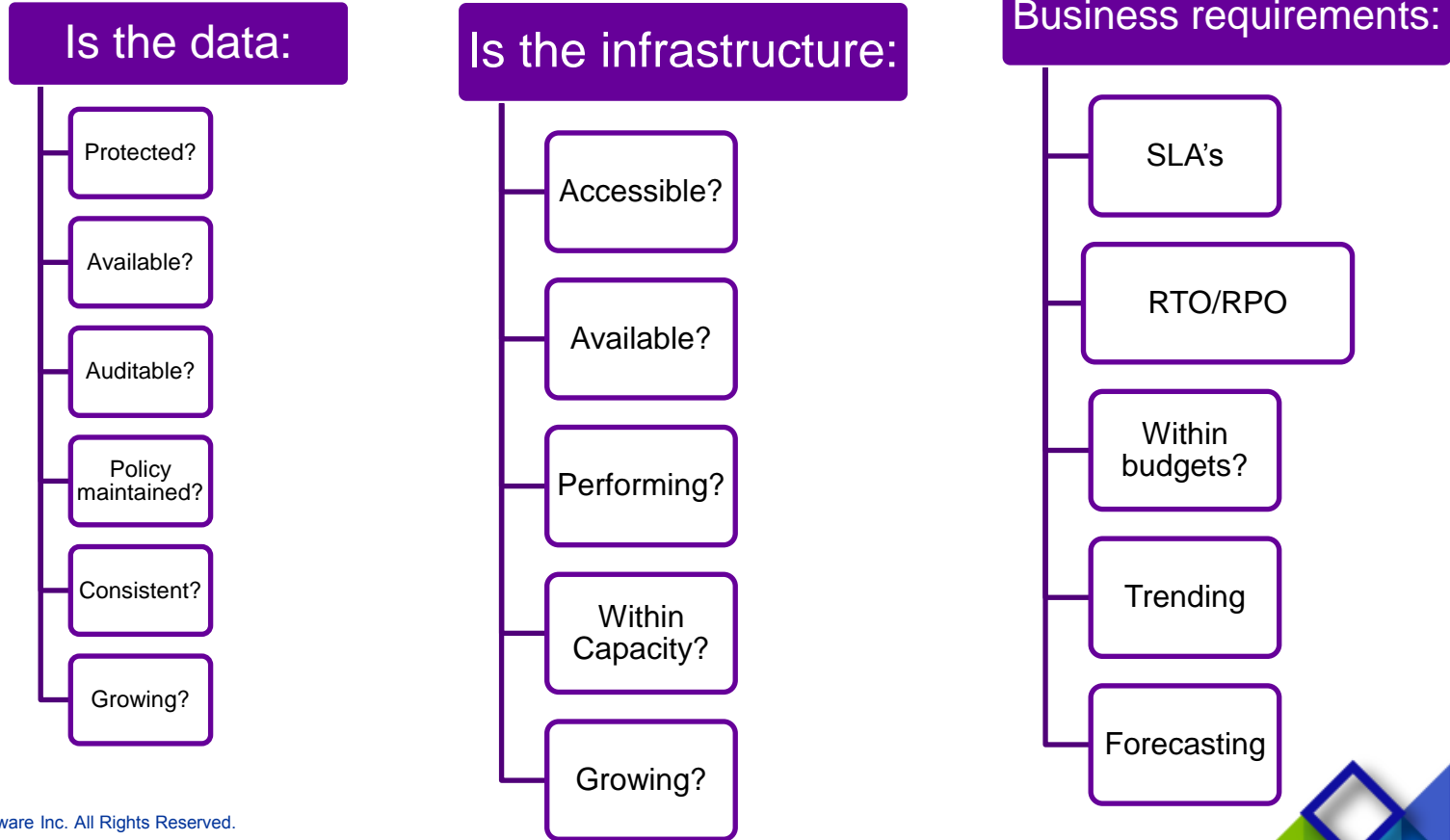- **Installation, maintenance and support on a single place**

Hardware Resources savings

- Installation, maintenance and support in one place

- Trapped Data
  - (Obsolete data in backup storage)

- Storage Abusers
  - (More backup data than SLA requires)

- Resource utilization optimization based on storage capacity trends

- Resource management based on data movements trends

- No report execution load or data retention load on any of the watched components

What does Servergraph do? It reduces the TCO.

Is the data:
- Protected?
- Available?
- Auditable?
- Policy maintained?
- Consistent?
- Growing?

Is the infrastructure:
- Accessible?
- Available?
- Performing?
- Within Capacity?
- Growing?

Business requirements:
- SLA's
- RTO/RPO
- Within budgets?
- Trending
- Forecasting

Customer Cases

- **Audit report for big bank**
  - Passed audit on the first attempt
  - Saved a lot of time and manual labor creating reports

- **MSP**
  - Uses 1 template report in 130 tailored customer views

- **Large automotive company**
  - Replaced their homebrew scripting regime

- **Airline**
  - Regained TB's of storage because of RMAN – Spectrum Protect mismatch

Easy try

- Open the DEMO link and start research

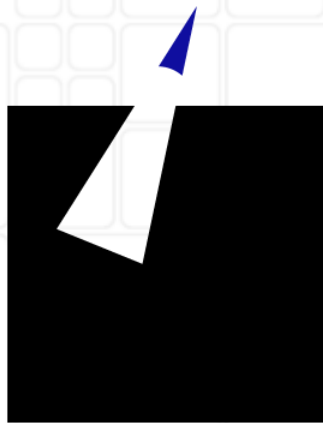 https://sgdemo.rocketsoftware.com/

- Download SW and install, configure and use

- Download VM image, load, configure and use

- Install/config service, Onsite and Remote

- Customization and training can be delivered

Questions?

It's not rocket science.
It's Rocket Software.