## **Orange**

**Cyberdefense Ahead of the Storm** 

# Cyber threat resilient backups

Amol Gangras, Global Hybrid Datacenter Services Manager Barry Callebaut





### **About Barry Callebaut**

Headquartered in Zurich, Switzerland, the Barry Callebaut Group is the world's leading manufacturer of high-quality chocolate and cocoa. We are the heart and engine of the chocolate industry and our mission is to be number one in all attractive customer segments. We are a business-to-business company, fully integrated with a strong position in cocoa-origin countries.

#### **Barry Callebaut:**

Employs more than 12,000 people operating out of more than 30 countries Operates more than 50 production facilities

As per 2020/21 Annual results, generating Sales revenue of CHF 7.2 billion, up +8.7% in local currencies (+4.6% in CHF)

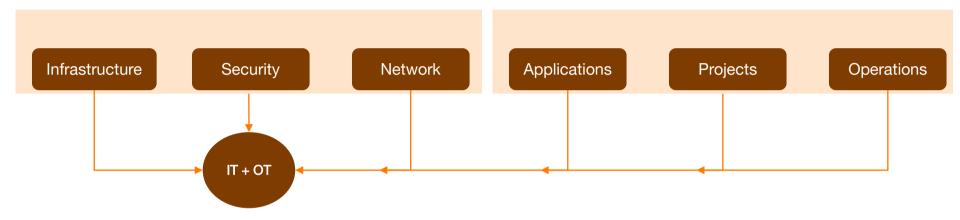
Has comprehensive competencies in the art of making chocolate and cocoa products — from sourcing and processing cocoa beans to producing the finest chocolates, including chocolate fillings, decorations and compounds

# Sales volume by Region In tonnes EMEA 997,324 Americas 610,133 Asia Pacific 138,396 Global Cocoa 445,719 Sales volume by Product Group In tonnes Food Manufacturers 1,498,496 Cocoa Products 445,719 Gourmet & Specialties 247,357





## **Barry Callebaut IT landscape at a glance**



#### Strong architecture footprint

- Global twin datacenter (fully mirrored) PaaS model, hosting 80% of SAP backbone
  - Today limited analytical applications in public cloud (example SAP)
- Harmonized local data center hosting MES on hyper-converged highly resilient clusters, standardized operations
- 130+ sites fully connected with global SD-WAN

The only missing part was 'data protection'

## The challenge



- Too many sites/data
- Insufficient performance
- SLAs were getting breached

#### Manageability

- Global overview: difficult
- Complex lifecycle management

#### **Future proof**

- Not catered toward modern requirements
- Limited cloud protection capabilities

#### Security

- Backup environments were a large attack vector
- Final bastion



## Rethinking remote back-up

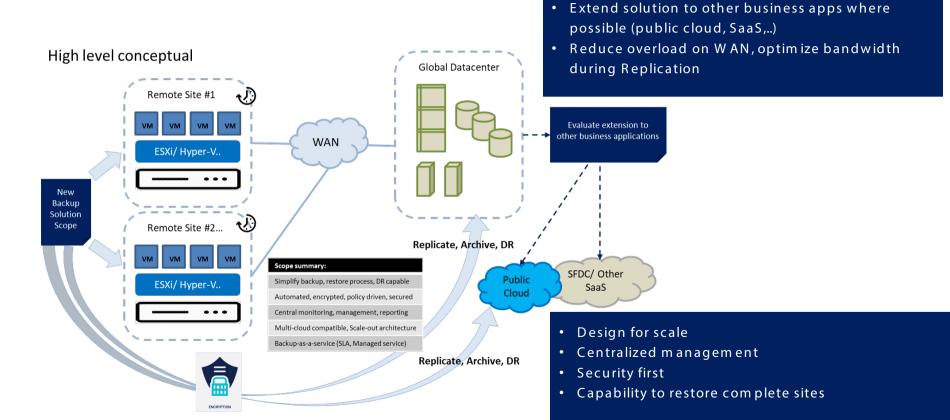
#### **Technical requirements**

- Efficiency
- Performance
- Global
- Future-proof

#### **Partner requirements**

- Focus on security
- Operational expertise
- Global capabilities
- Managed services
- Technology experts

## **Vision**



Architecture principles:

REST)

End-to-end data encryption (at source, in transit &

## Common factors in recent ransomwares attacks

1

**Exploited vulnerabilities** 

Have a patch management and vulnerability management strategy

2

Keys to the kingdom stolen

Have a Privileged Access Management (PAM) strategy 3

Compromised backup

Have a business continuity and disaster recovery strategy 4

Long business impact

Have an incident response strategy

Challenges	Co-managed backup and restore service
Scalability (number of sites and amount of data)	Designed for limitless scalability from the ground-up.
Disaster recovery requirements not met / off- site backups not for every site	Provide off-site backups in combination with live-mount capabilities
Platform management is time consuming	Orange Cyberdefense services combined with vision on data recoverability
Only basic reporting	Rich and automated reporting functionality
Future proof	Gartner 2020 MQ for data center backup and recovery solutions.
Ransomware recovery!	Detect anomalies, analyze threat impact and accelerate recovery in combination with CSIRT services

## SWOT analysis of the implemented service

#### Strengths:

- Innovation-driven | Gartner recognized Leader & Visionary
- SaaS platform for global insight and management with Global automated reporting capabilities
- Scale-out solution with API first strategy
- SLA & policy-driven backups
- CSIRT retainer, ransom ware remediation

#### **Opportunities**:

- Free up FTE for business-oriented projects
- Enables customer to venture further into public cloud
- Gain alerting, insight on impact, and easy remediation after cyberattack

#### Weaknesses:

- Limited support for older (\"legacy\") operating systems for workloads
- · Challenging to predict cloud spend

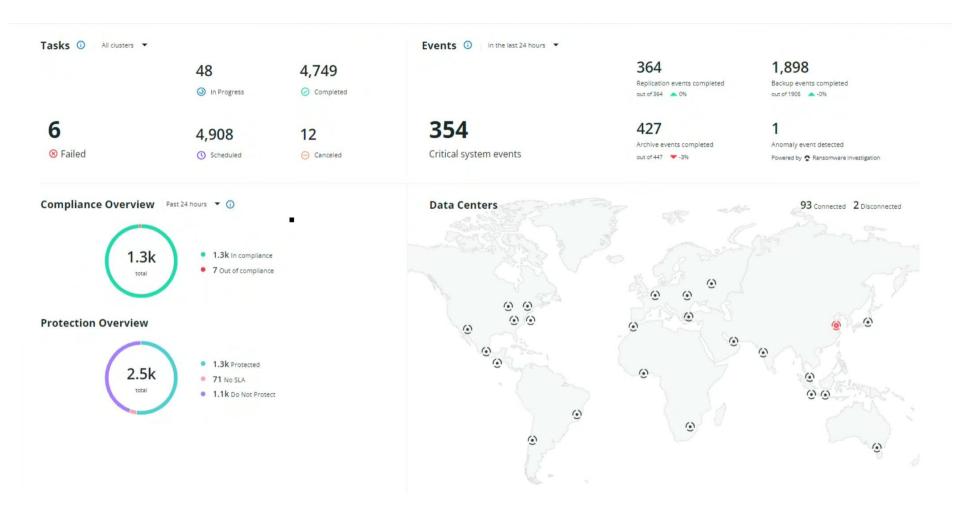
#### Threats:

Network topology/failover should be carefully planned to enable DR-scenarios!



## The situation today

- 100+ sites protected worldwide
- 4749 backups per day
- Diverse workloads being protected
- Globally defined SLAs
- Automated backup scheduling





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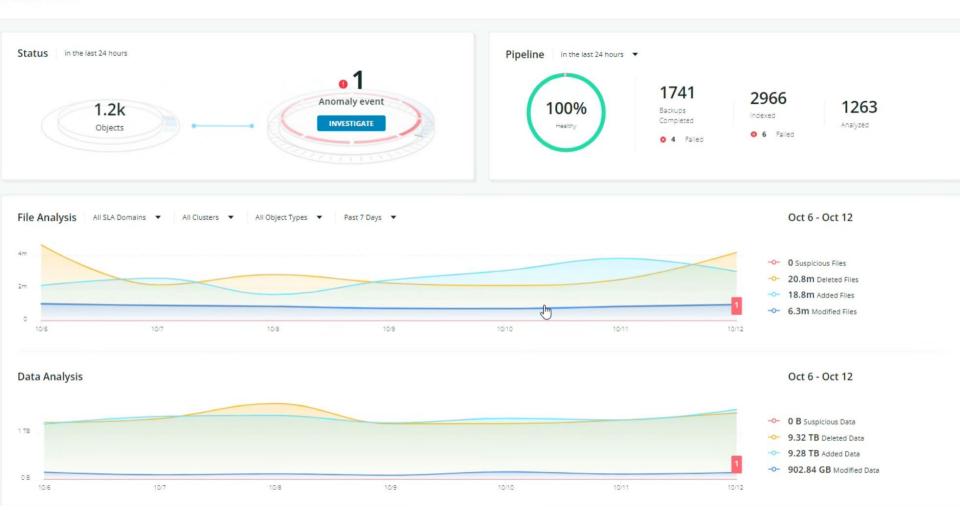
#### DATA PROTECTION > RANSOMWARE INVESTIGATION > **Protected Objects Data Centers** 93 Connected 2 Disconnected Pipeline health 100% Anomaly event 00 1.4k INVESTIGATE Objects Objects **DATA DISCOVERY** Past 24 hours ▼ Cloud SaaS Data Center Data Discovery is an application to discover, classify, and protect sensitive data, such as credit card numbers, social security numbers, or ITIN, across data sources and locations. Use Rubrik to protect your Microsoft 365 You don't have any cloud accounts added 1.4k -7 Objects to Rubrik 14.1 PB -217.5 TB SETUP READ MORE READ MORE All clusters 🔻 Tasks APPLICATION RECOVERY > -0- 6 Failed - 4.7k Completed -0- 12 Canceled 11:30 PM



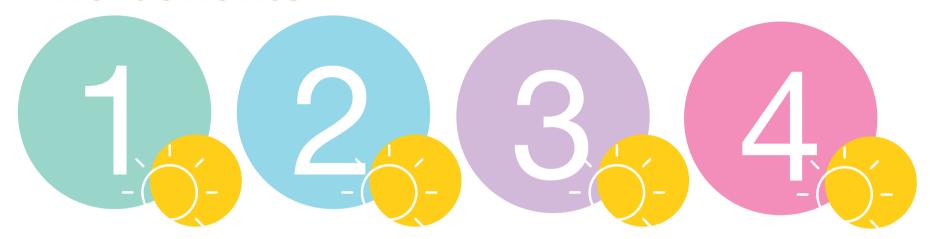
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- CSIRT

#### Dashboard



## The benefits



#### Collab between global experts

- Capability to combine agility with global services
- References & know-how on different levels: design/deploy/managed

#### Proven managed services

- Opportunity to align with specific BC objectives
- Flexibility to balance level of managed services
- Extension of our own team

#### **Recover Capabilities**

- Regular fire drills
- Capable to restore full sites
- Ransomware & anomaly detection + CSIRT

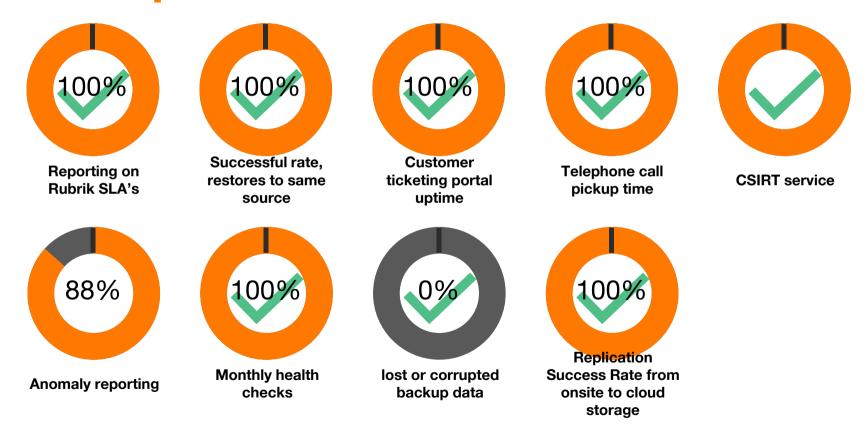
#### Focus on cybersecurity

- Choice for innovative and specialized solution
- Industry recognition e.g. Gartner MSS / Forester Wave / IDC

## **KPI's**

- Reporting on missed Rubrik SLA's: 99,88% successful per quarter
- Successful rate, restores to same source: 99% per quarter Details incorporated in presentation
- Customer ticketing portal uptime: Uptime 99.88% / quarter
- Telephone call pickup time: Within 60 seconds: 1 failure/quarter
- CSIRT service: An Incident Manager will be assigned within a max. of 4 hours of initial triage. Initial triage will be initiated via Cybersoc, available 24x7.
- Anomaly detection : Within 24h reported
- Monthly health check reporting by Design Authority (capacity runway + software versioning)
- Percent of lost or corrupted backup data : 0%
- Replication Success Rate from onsite to cloud storage: 100% success rate

## **Backup service KPI's**



**Upcoming initiatives** 

Migrate more applications to public cloud

Redefine crown jewels

Revisit BIA

 Enhance incident response process (cyber events)

- PAM
- Azure AD
- Cloud security posture management
- Enhance OT security



## Orange Cyberdefense

## Thank you

Amol Gangras, Global Hybrid Datacenter Services Manager Barry Callebaut October 21, 2022

