

A wide-angle photograph of the Moscow skyline at sunset. The sky is a warm orange and yellow. In the foreground, the golden domes of the Kremlin are visible. The background features a dense cluster of modern skyscrapers under construction, with many cranes visible against the sky.

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FORCE™

FORCE FOR BUSINESS | RUSSIA

Мониторинг и анализ производительности  
приложений на основе Riverbed SteelCentral

riverbed®

Производительность  
Приложений

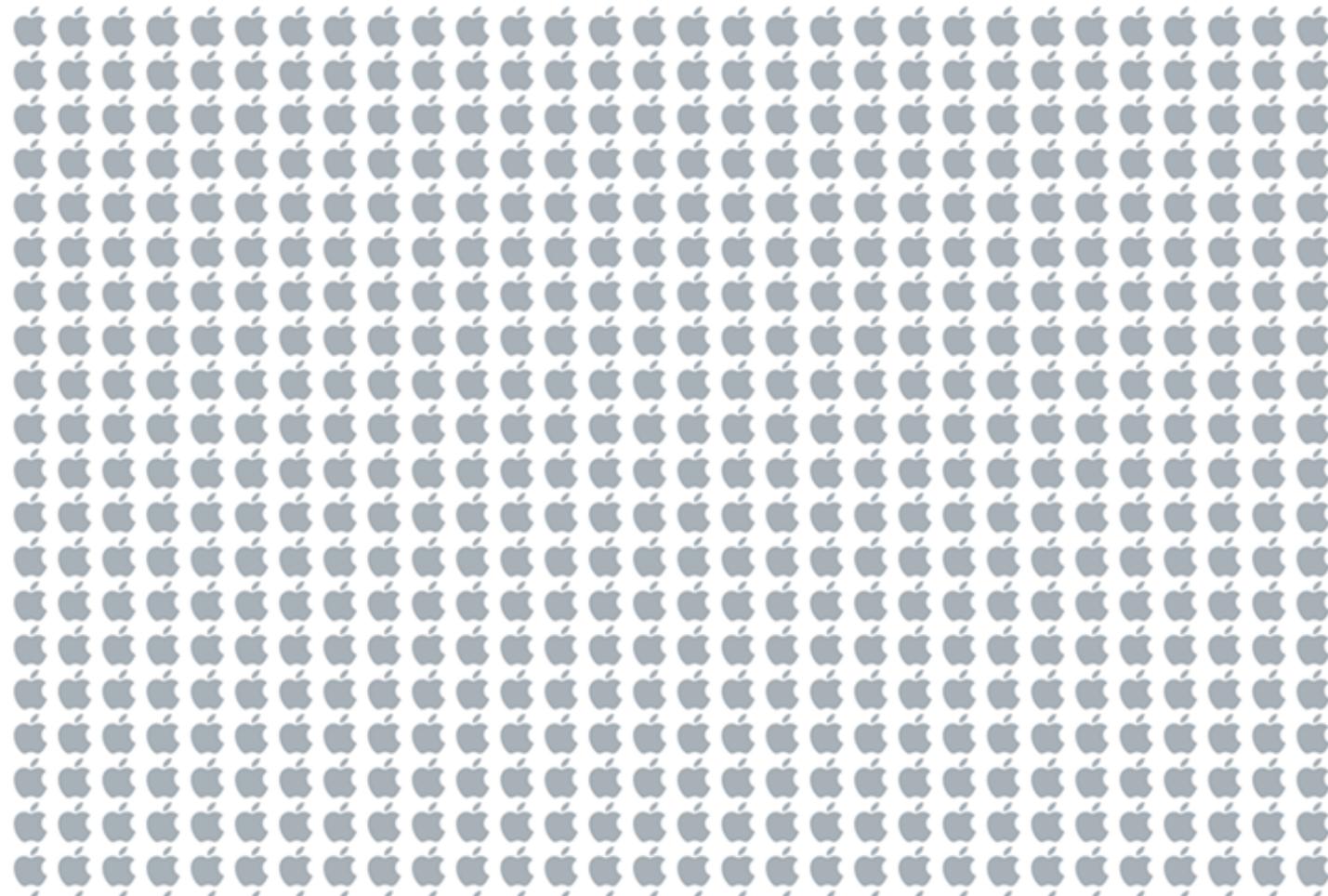
=  
Производительность  
Бизнеса



Apple 

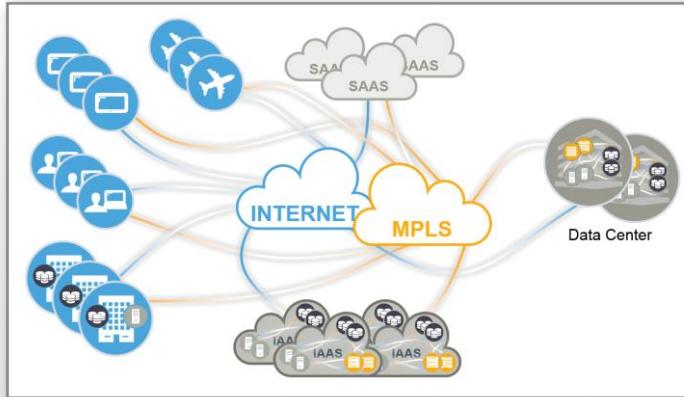
makes **\$4540** per second.

They have made  
**\$413,140** more since you've been here.

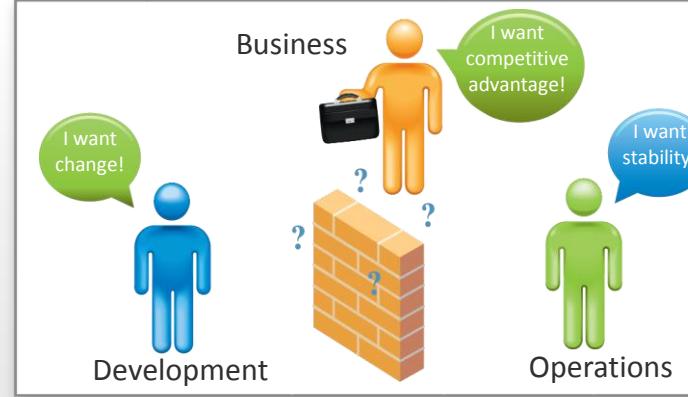


# Вызовы для бизнеса и ИТ

Возрастающая сложность



противоречие требования



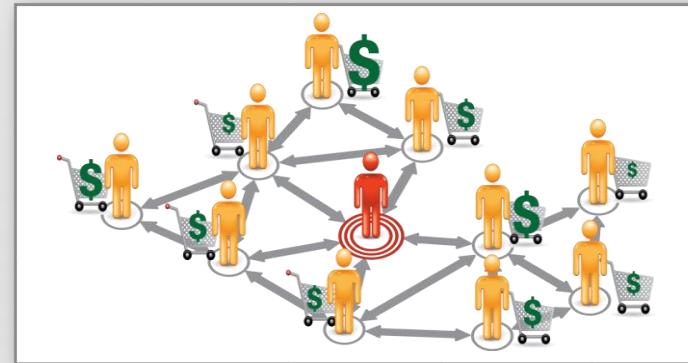
время - деньги



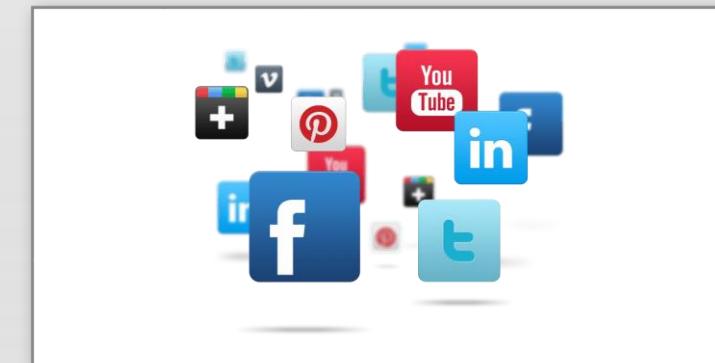
больше отдачи за меньшие средства



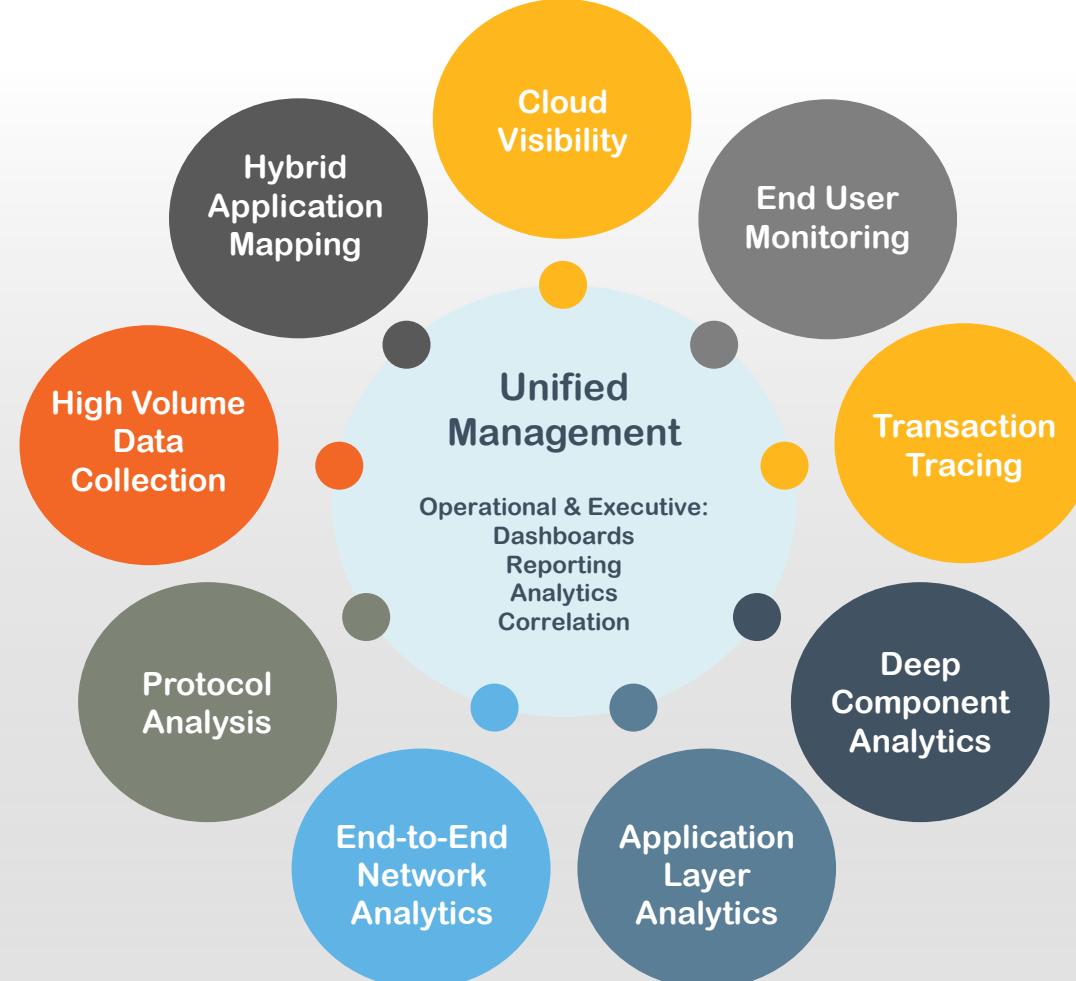
Возрастающие ожидания



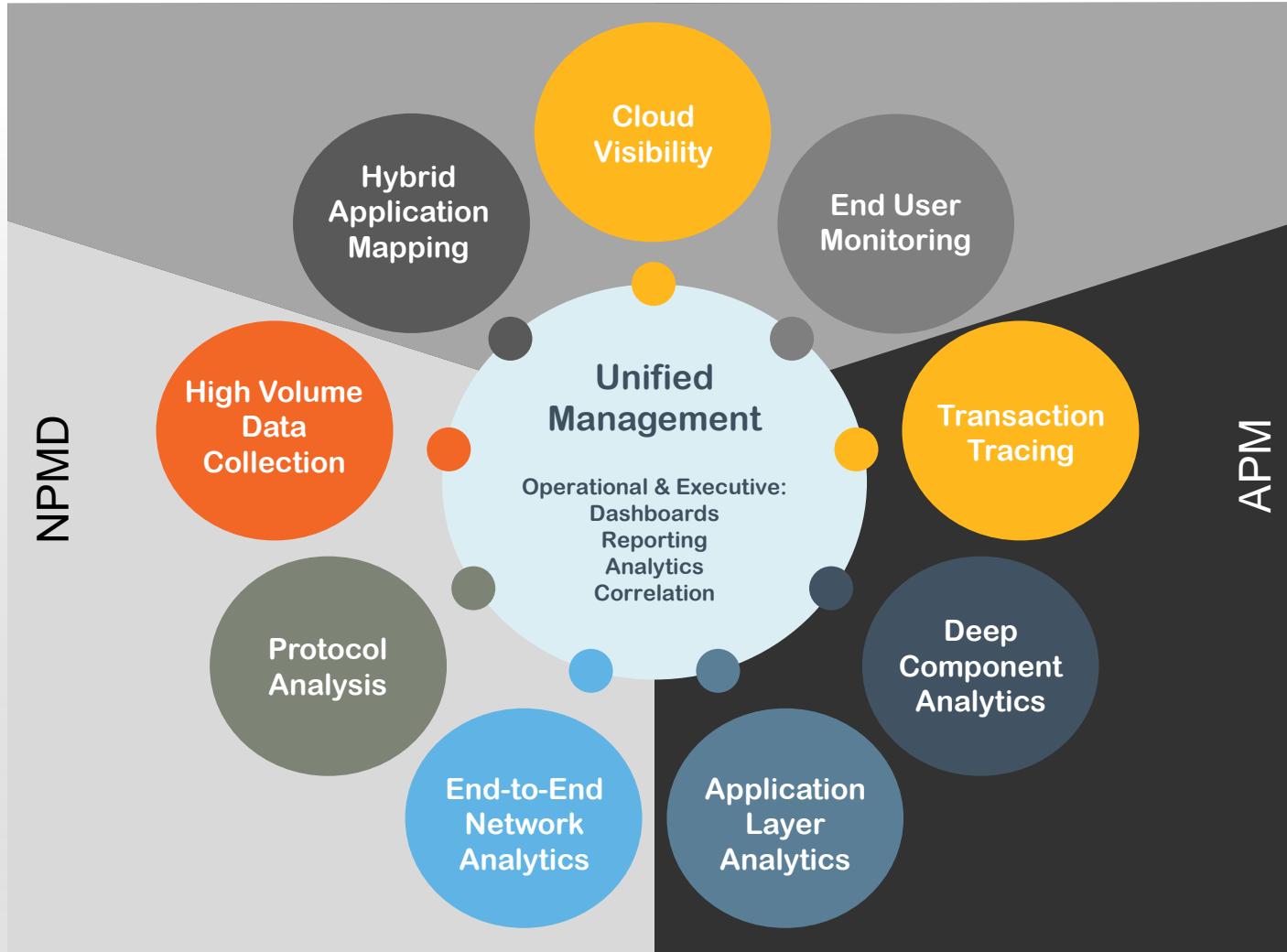
мгновенно публикуемые проблемы

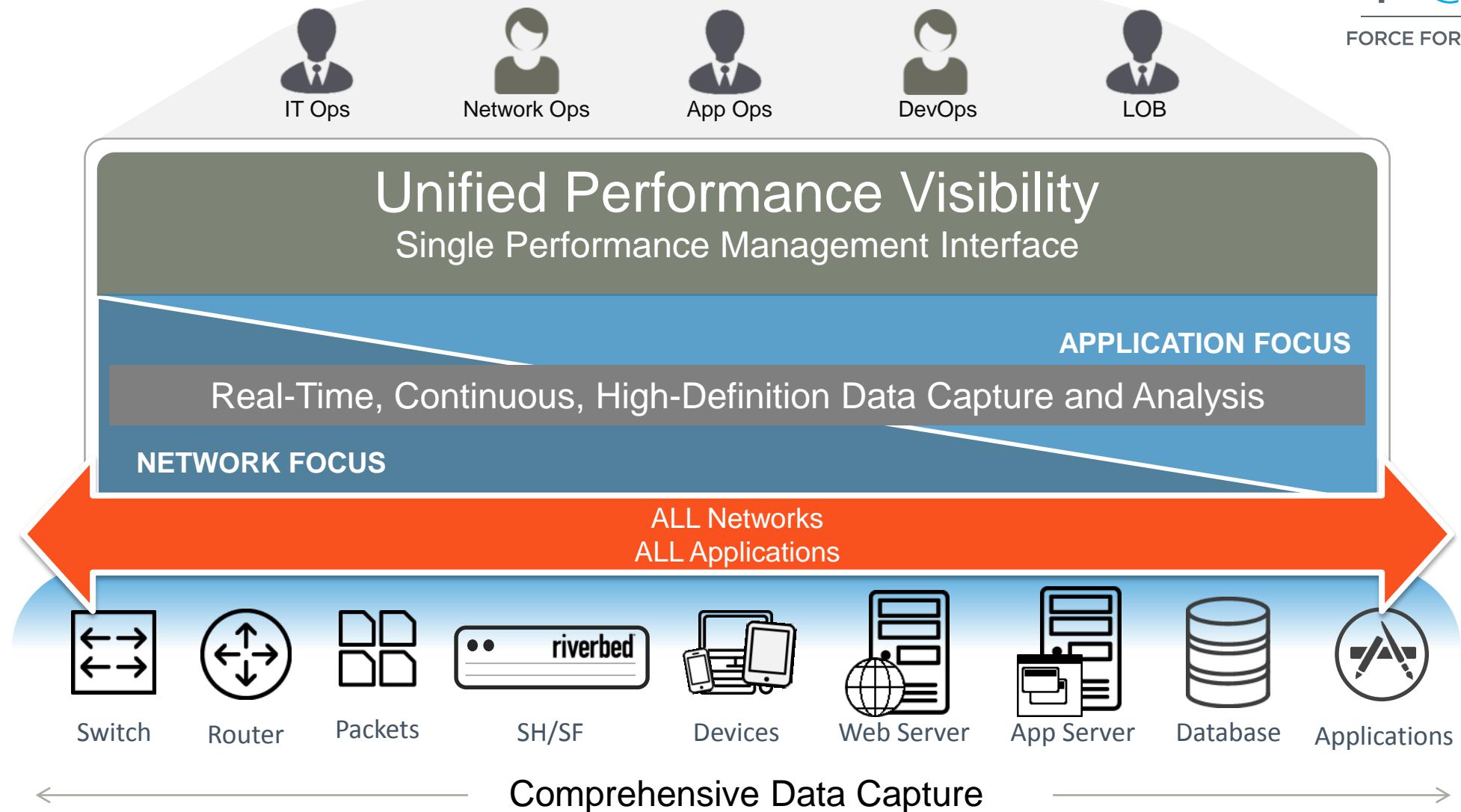


# Категории целостного подхода мониторинга производительности



# Классы инструментов для целостного подхода





**SteelCentral: Your Command Center for Application Performance**

Мониторинг конечного  
пользователя

Картография приложений

Глубокий анализ  
компонент приложения

Мониторинг Сети,  
Разбор Пакетов,  
Анализ Потоков

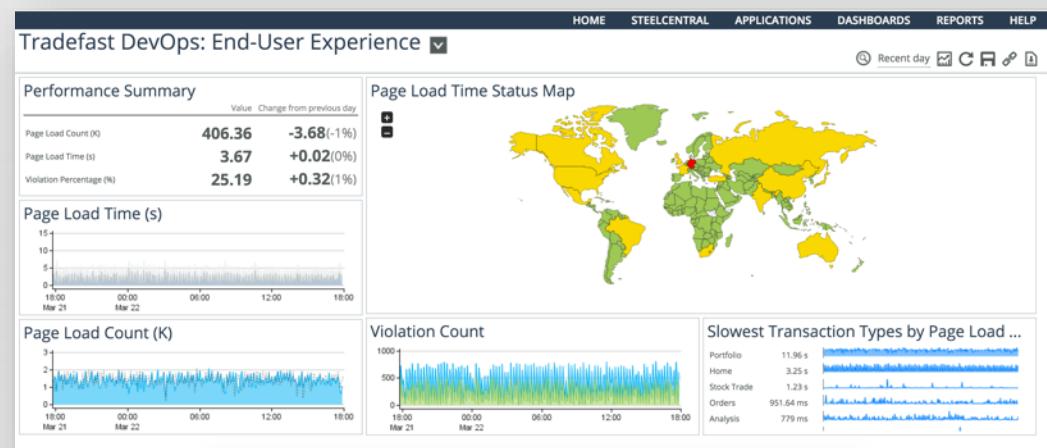
# EUE Monitoring Solution with SteelCentral

Leave no user behind

Understand user satisfaction by geography, browser or device, and expose issues before users complain

Troubleshoot problem down to the root cause

Diagnose issues and arm the right teams – app, network or infrastructure – with diagnostics they need to fix the issue



MONITOR TRAFFIC



AppOps



DevOps



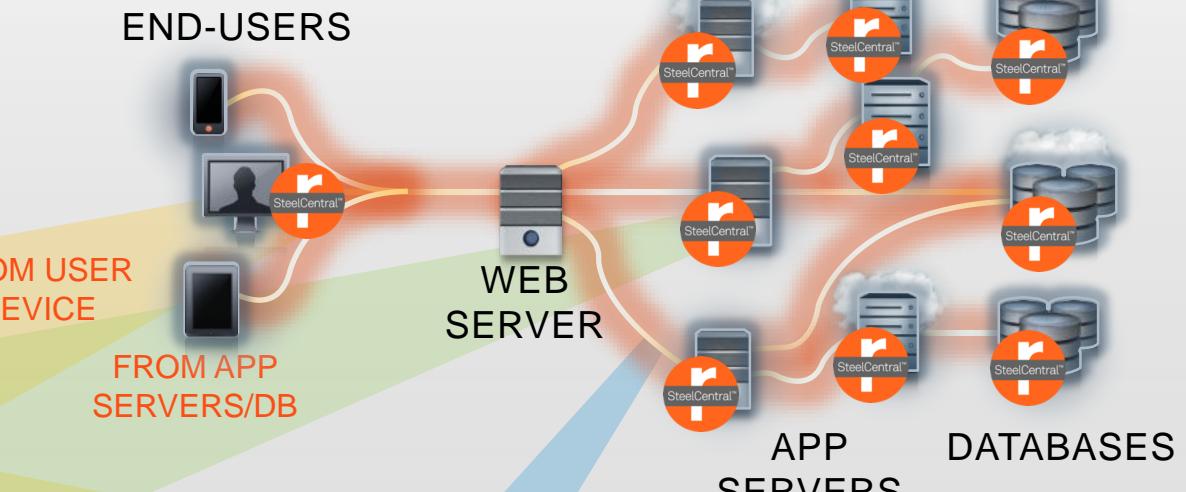
LOB

Integrated UI Portal

Network-based APM

Agent-based APM

Data-Rich EUE Monitoring, correlating EUE with underlying Network & Application Issues



# EUE Device-based Monitoring with SteelCentral



AppOps



DevOps



LOB



CIO



CMO/CEO

Integrated UI Portal

Network-based APM

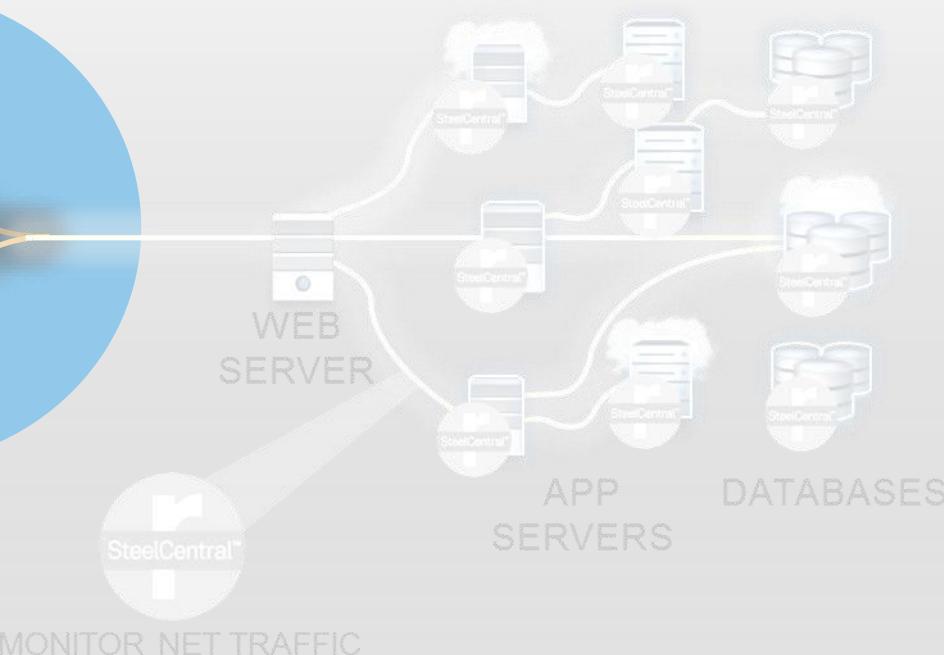
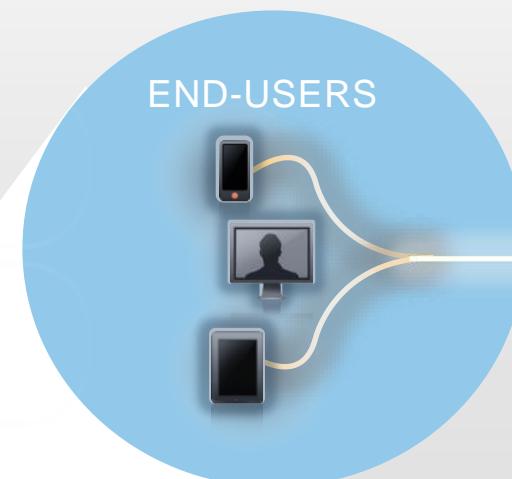
Agent-based APM

Device-based APM

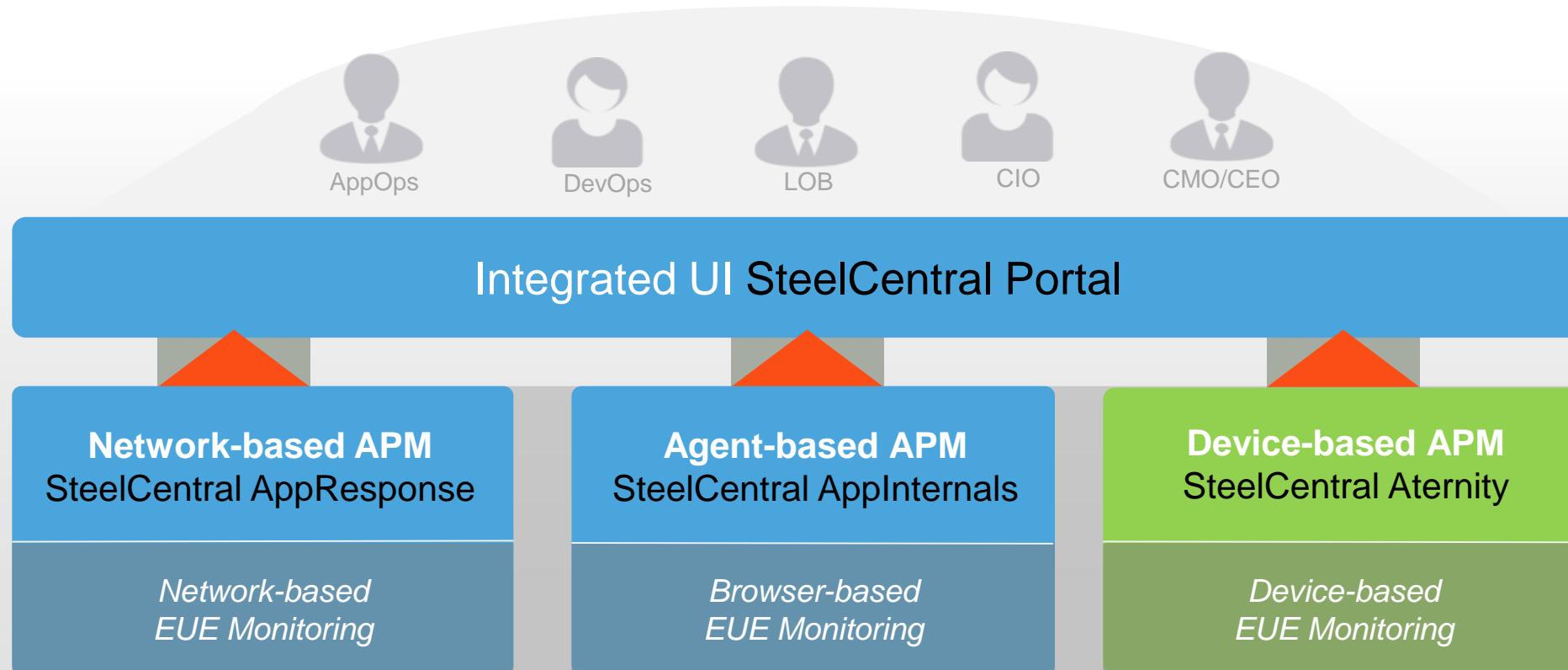
*EU Device Based Monitoring*

*EUE & App Performance Monitoring of SaaS & packaged apps (e.g. O365, SAP GUI, Oracle, Citrix Think Client)*

*Workforce Productivity Monitoring for every user in every location*



# The most advanced EUE monitoring solution in the market



***SteelCentral EUE Monitoring Solution***



# Найдём Решение за Минуты

вместо часов, дней, недель...

**riverbed**<sup>®</sup>

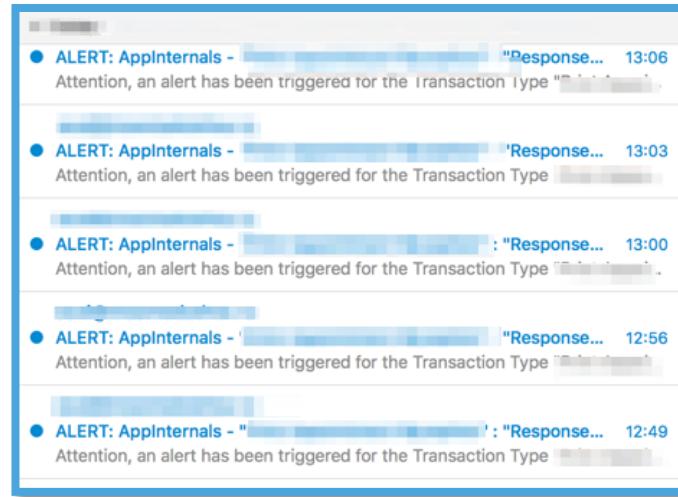
# С чего всё начиналось у заказчика

- **Отсутствует представление** о производительности приложения
- **Анализ отказов** требует много времени (MTTR)
- Проблемы решаются **заменой оборудования** (неоправданные инвестиции)
- **Постоянные жалобы** клиентов ПО
- **Перебрасывание ответственности** между командами
- **Сложности в общении** с разработчиками

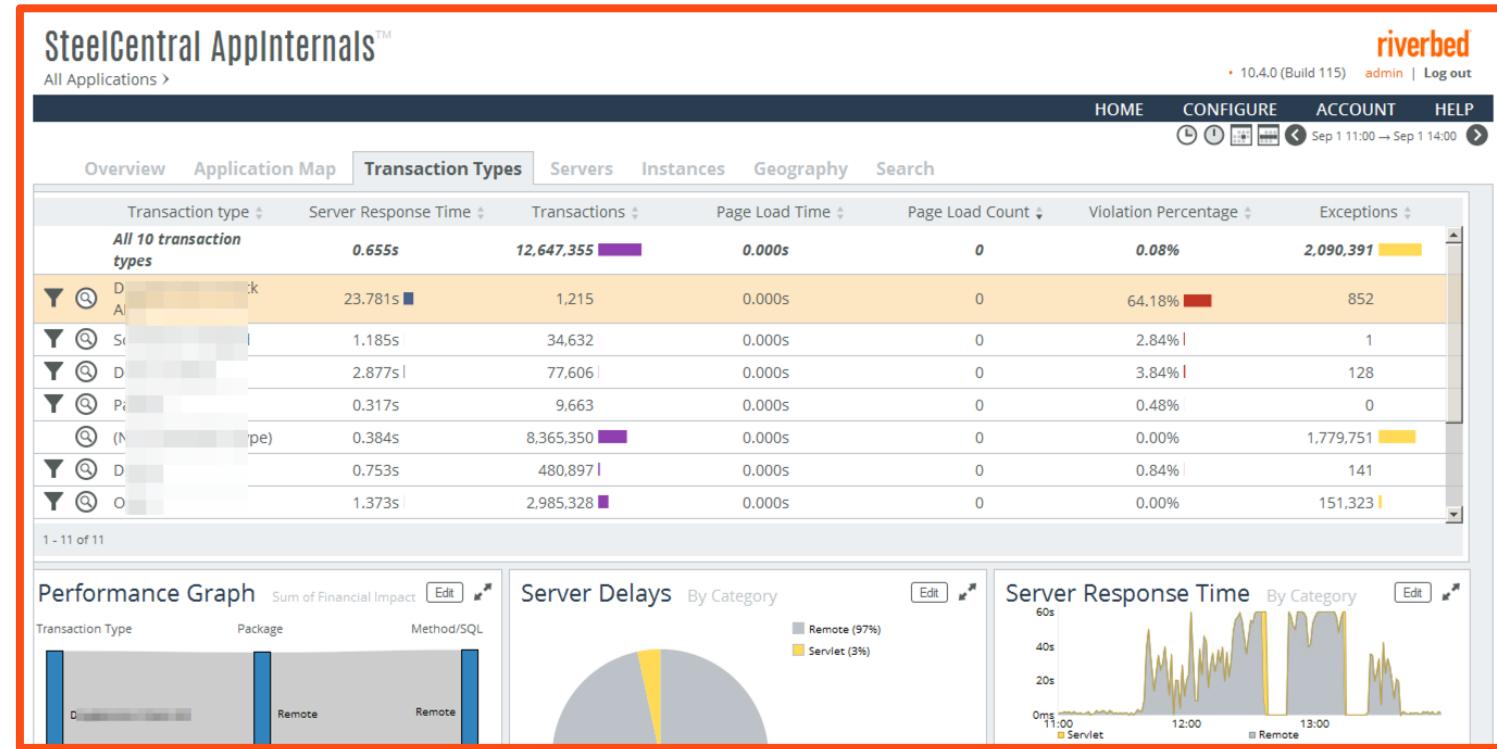
# А это как выглядит их инфраструктура



# Проблема с сервисом “DD Check” – «подозреваемый»

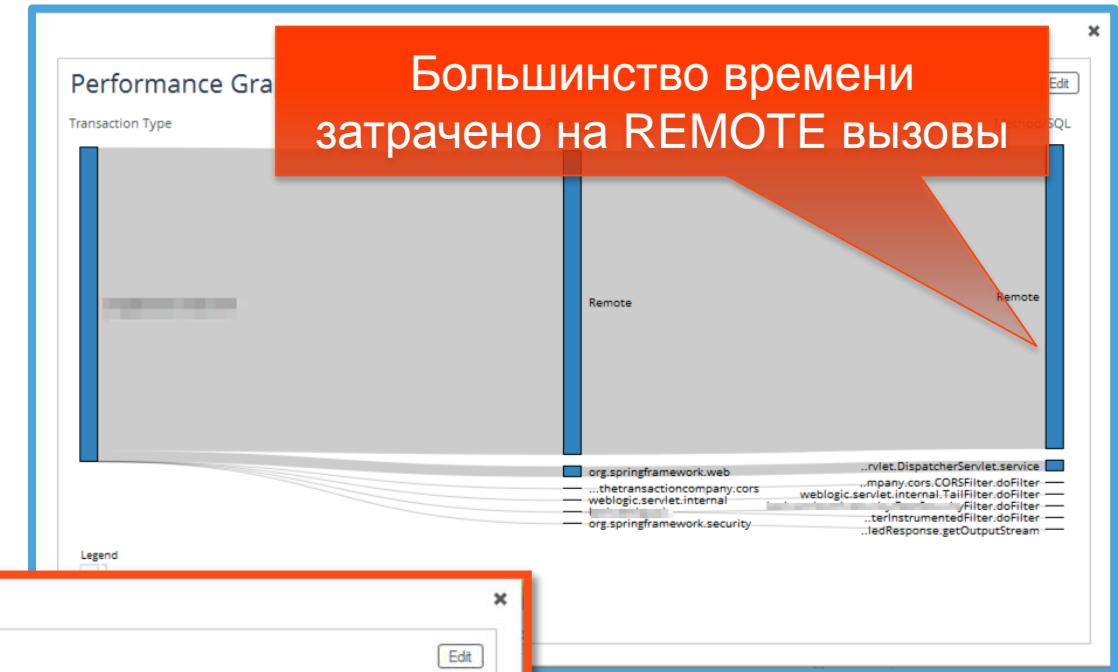
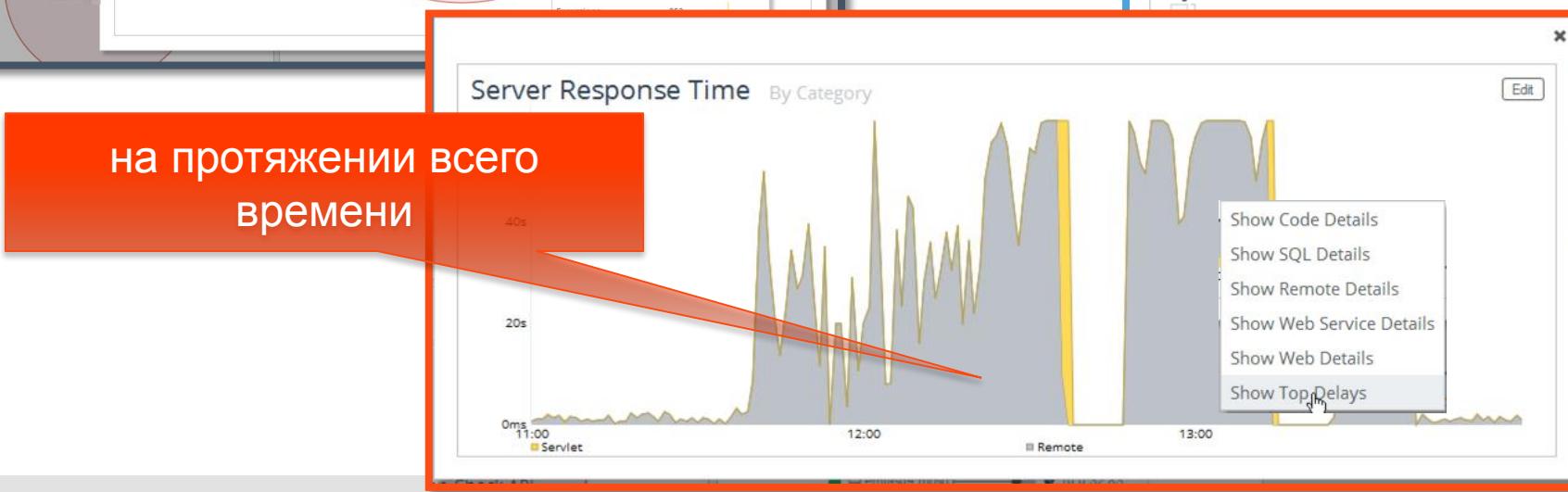
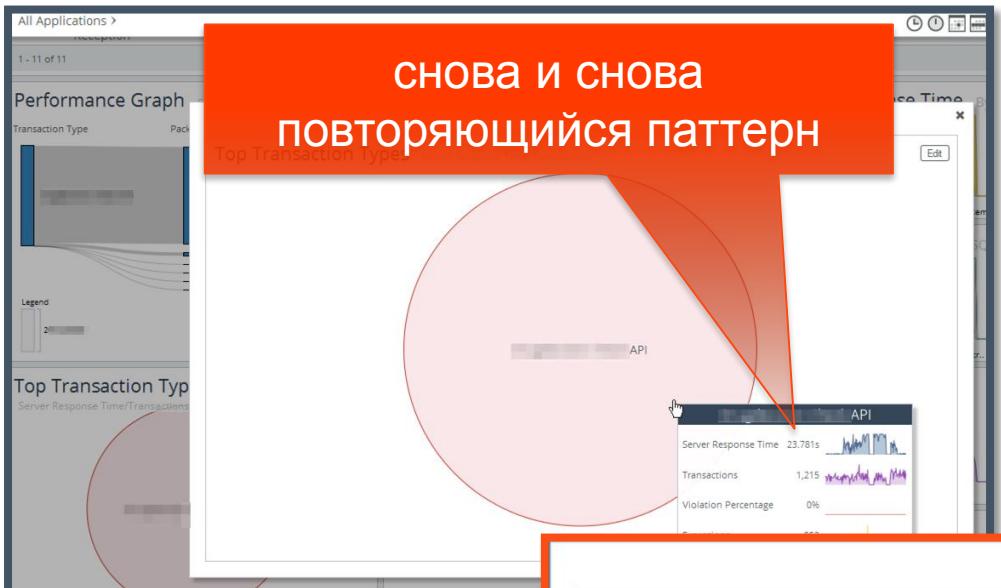


1. Уведомления об увеличенном времени отклика



2. Начало анализа проблемы с сервисом „DD Check API“

# Расследование проблемы с методом



Методы, где было затрачено  
 большинство времени на всех  
 транзакциях с использованием  
 «подозреваемого»



Total Processing Time (s)	Processing Time/call (s)	Maximum Processing Time (s)	Method
12,196.36	16.20	1,034.05	weblogic.wsee.jaxws.JAXWSEjbServlet.service
10,488.57	31.12	1,033.83	weblogic.wsee.jaxws.JAXWSEjbServlet.service_37dd6s_Impl.addDrugsCacheOfServiceVLS
10,347.88	30.98	1,033.83	weblogic.wsee.jaxws.JAXWSEjbServlet.service_37dd6s_Impl.fastCheckDrugsInteraction
9,892.96	29.44	1,033.83	weblogic.wsee.jaxws.JAXWSEjbServlet.service_37dd6s_Impl.log
9,495.37	12.69	947.57	com.riverbed.license.server.SEInvokerTube.processRequest
8,594.87	11.31	18.11	missionBean_rrktmo_Impl.getLpuPermissionListByLpuExternalId
3,448.03	3.50	18.07	missionBean_rrktmo_Impl.getBenefitCategoriesByBenefitGroup
2,989.05	7.72	18.04	registryBean_swnj1i_Impl.listBenefits
2,638.84	7.00	18.06	registryBean_swnj1i_Impl.getPatient
1,265.98	4.03	18.11	drugDecisionSupportBean_l9vk4g_Impl.getPrescriptionsRowBy
297.06	11.43	17.05	prescriptionBean_4ngd7w_Impl.getPatient
195.57	13.97	18.06	interactionLogBean_bxrpg_Impl.registerInteractionLog
179.04	12.79	16.28	prescriptionLookupBean_8odr5k_Impl.getPharmacyActual
177.81	11.85	17.12	MIASObjectsBean_4ewri_Impl.getAPU
132.94	9.50	17.20	MIASObjectsBean_4ewri_Impl.getDoctor
100.61	0.01	1.03	internal.RmiDataSource.getConnection
77.36	12.89	17.06	prescriptionBean_4ngd7w_Impl.listPrescriptions
61.32	8.76	15.12	patientBean_17lcde_Impl.setStatus
60.10	15.02	15.04	reeFoodServiceBean_ij4ixs_Impl.findQuotaByld
48.59	6.94	15.67	registryBean_swnj1i_Impl.changePatientHistory

[Overview](#) [Application Map](#) [Transaction Types](#) [Servers](#) [Instances](#) [Geography](#) [Search](#)

SupportBean

Add Criteria » Show the top 1000 Slowest End-to-End Transactions For context (optional)  Apply Global Filters [Analysis](#) [Search](#)

**Refine Results** »

User  
300s anonymous (983)  
457s unknown (17)

User IP  
300s 10.0.32.83 (983)  
457s N/A (17)

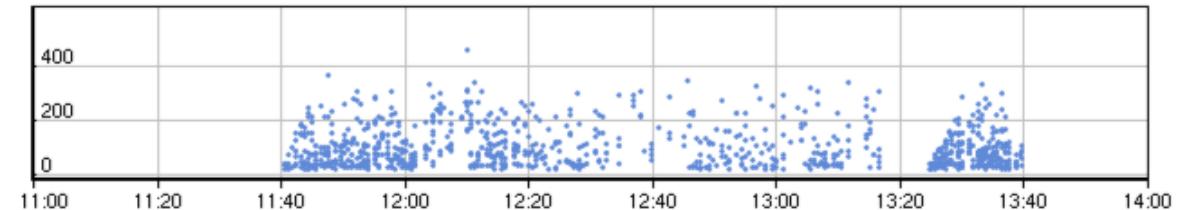
URL Path  
300s ug... (983)  
457s N/A (17)

Transaction Type  
300s (983)  
457s N/A (17)

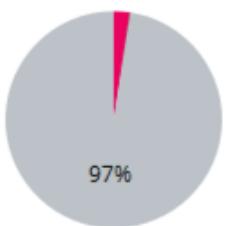
Server  
457s (1000)  
Region  
457s N/A (1000)

## Top 1,000 Slowest Matching Transactions

Response Time (sec.)



### Summary of Server Delays



Remote (97%)  
EJB Session (2%)  
Other Categories (< 1%)

**Search Results** »

## Matching Transactions

[Edit](#)

Response Time	Completion Time	Transaction Type	Exceptions	Start Time	User IP	User XFF IP	Server	Instance	URL Path
457.259s	12:09:52			12:02:15	unknown		Weblogic_e	1000	

SupportBean | histogram

Add Criteria > Show the top 1000 Slowest End-to-End Transactions For context (optional)  Apply Global Filters

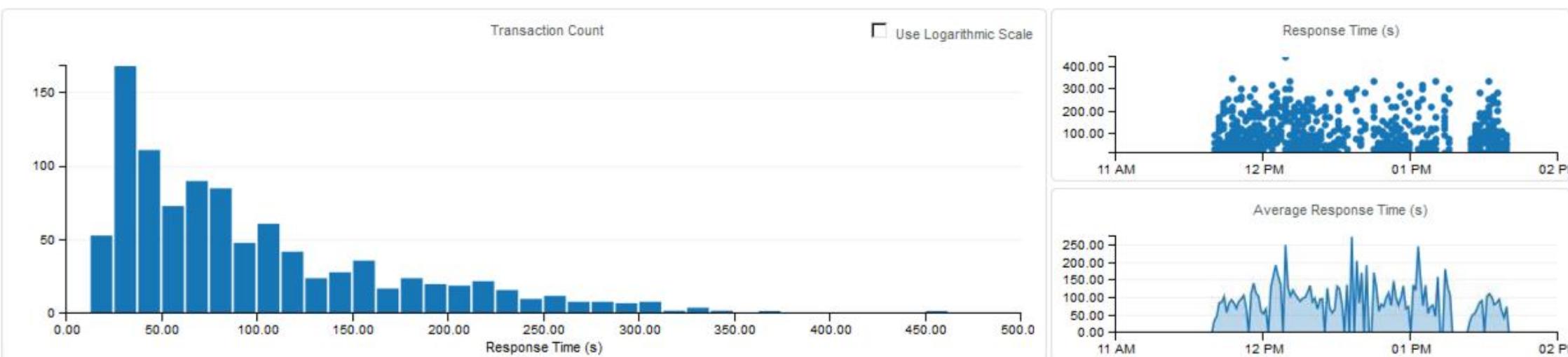
## Histogram

Interactive histogram of response times for top matching transactions. Filter the data by dragging over the histogram and response time charts or by selecting bars in the charts below.

Search: (r) SupportBean | histogram 

1,000 of 1,000 transactions selected. Clear Selection.

Related Searches ▾



Sort By: Transaction Count  Show: 5



Увеличенное время отклика 457 Sec.

**OVERVIEW URLs TOP CALLS CALL TREE**

Overview

**URL**

Page Load Time: 457.259s

Server Response Time: 457.259s

Exceptions: 200

User IP: [REDACTED]

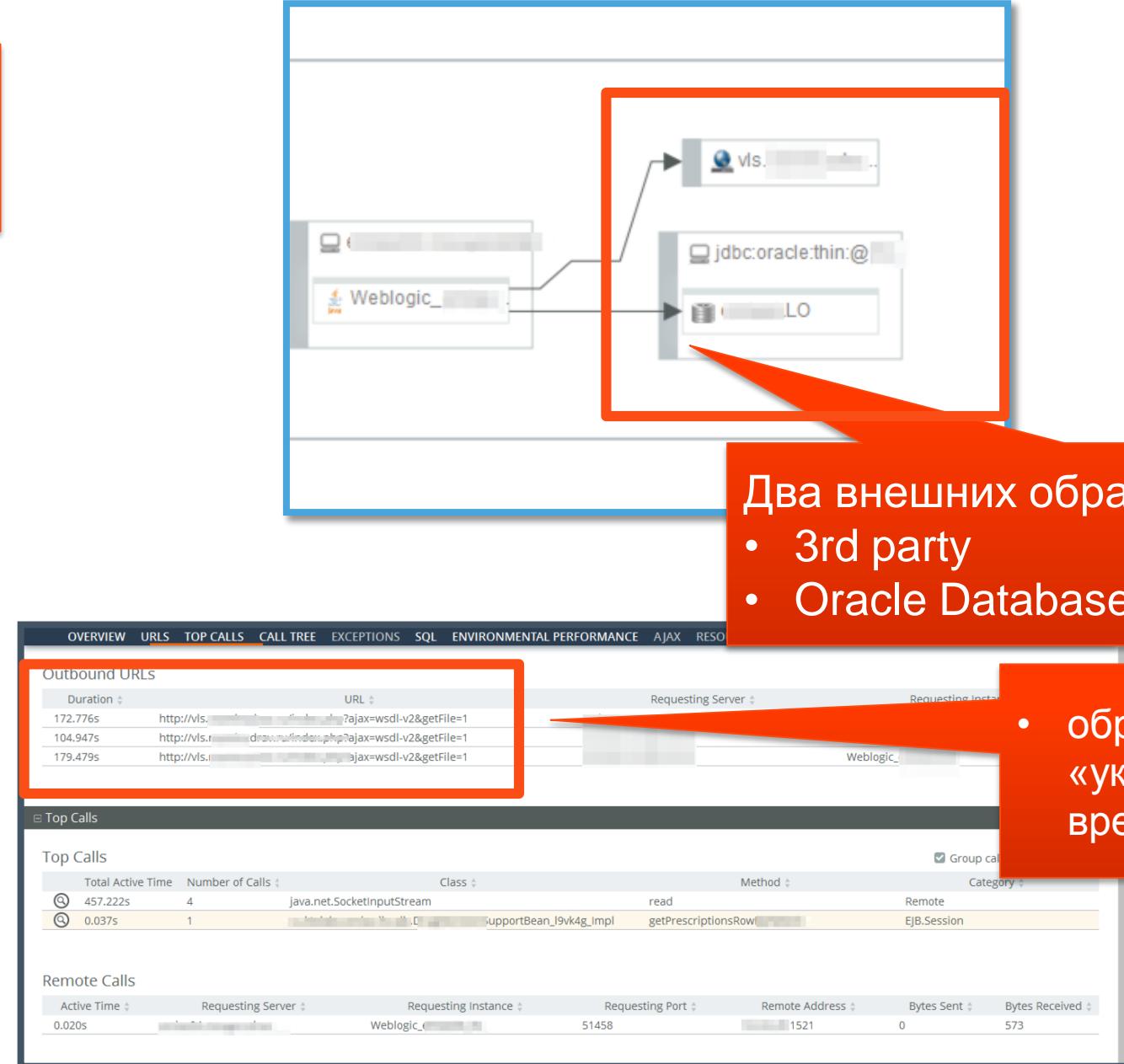
Location: [REDACTED]

**Page Title**

Transaction Type: [REDACTED]

**Summary**

- The **slowest** back-end tier was Weblogic\_ [REDACTED] (100%)



Два внешних обращения

- 3rd party
- Oracle Database

- обращение к 3rd party «украло» большинство времени

HOME

CONFIGURE

ACCOUNT

HELP

Sep 1 11:00 → Sep 1 14:00

[Overview](#) [Application Map](#) [Transaction Types](#) [Servers](#) [Instances](#) [Geography](#) [Search](#)

'http://vls... wsdl-v2&amp;getfile=1' | histogram

Analysis

Search

[Add Criteria](#)

» Show the top

1000

Slowest



End-to-End Transactions



For context (optional)

## Refine Results »

## User

300s anonymous (668)  
 457s unknown (332)

## User IP

300s [redacted] (668)  
 457s N/A (332)

## URL Path

300s [redacted] (668)  
 457s N/A (332)

## Transaction Type

300s [redacted] (668)  
 457s N/A (332)

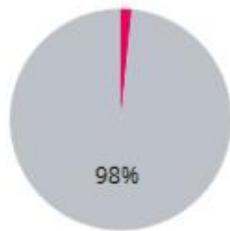
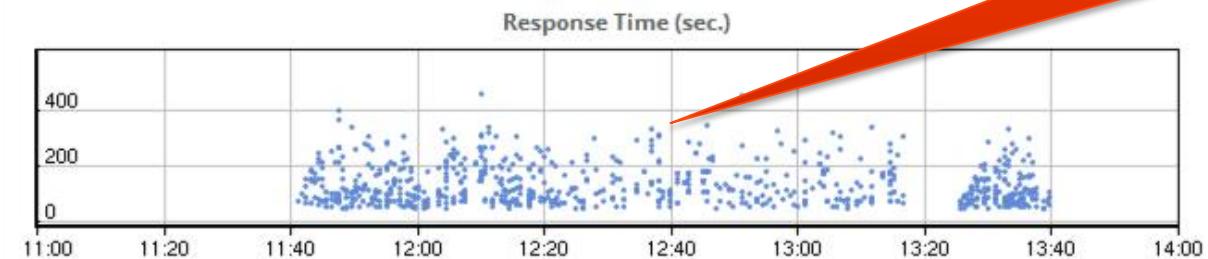
## Server

457s [redacted] (1000)

## Region

457s N/A (1000)

## Top 1,000 Slowest Matching Transactions



- Отбор всех транзакций где происходит обращение к 3rd party сервису

## Search Results

## Matching Transactions

»

Edit

Response Time	Completion Time	Transaction Type	Exceptions	Start Time	User IP	User	User XFF IP	Server	Instance	URL Path
457.259s	12:09:52			12:02:15	unknown				Weblogic_	[redacted]

- Connection pool был сконфигурирован только для 20 одновременных подключений

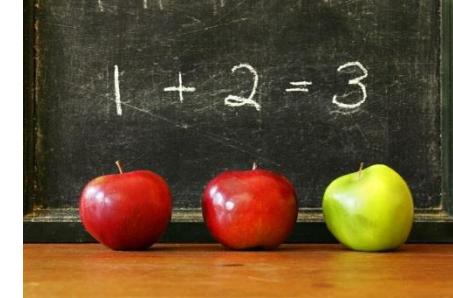


The screenshot shows a monitoring interface with a navigation bar at the top. The 'Exceptions' tab is selected. Below the table, there is a horizontal bar with three colored segments: blue, orange, and grey.

Occurrences	Exception	Class	Method	Server	Instance
1	weblogic.jdbc.extensions.PoolLimitSQLException: weblogic.common.resourcepool.ResourceLimitException: No resources currently available in pool [REDACTED] DataSource to allocate to applications, please increase the size of the pool and retry..	weblogic.jdbc.common.internal.RmiDataSource	getConnection	[REDACTED]	Weblogic_e[REDACTED]
3	weblogic.jdbc.extensions.PoolLimitSQLException: weblogic.common.resourcepool.ResourceLimitException: Configured maximum limit of (20) on number of threads allowed to wait for a resource reached for [REDACTED] DataSource	weblogic.jdbc.common.internal.RmiDataSource	getConnection	[REDACTED]	Weblogic_e[REDACTED]

# Итог

- Инфраструктура к проблеме **НЕ Причастна** от слова совсем
- **Обращение к 3rd Party сервису** являлось основным источником замедления
- **Connection pool слишком мал** для обработки таких долгих запросов
- **Решение потребовало минуты** вместо часов





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