ВИРТУАЛИЗАЦИЯ СЕРВИСОВ

КАК ПРОТЕСТИРОВАТЬ ПРИЛОЖЕНИЕ, ПРИ ОТСУТСТВИИ КОМОНЕНТ

Валерий Куваев,
Технический консультант,
HP Software , ALM

© Copyright 2011 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

Д-180

2 ATM

23 TC

БИЗНЕС ПРИЛОЖЕНИЯ – ВРЕМЯ ПЕРЕМЕН

	Вчера	***Сегодня***
Люди	**ЕДИНЫЕ КОМАНДЫ**	**РАЗНЕСЕННЫЕ**
процессы	**ВОДОПАД**	**ГИБКИЕ МЕТОДОЛОГИИ**
технология	**КЛИЕНТ-СЕРВЕР, ВЕБ 1.0**	**ИНТЕГРАЦИИ, WEB 2.0**
доступ	**НА МЕСТЕ**	**SaaS, МОБИЛЬНЫЙ, ОБЛАЧНЫЙ**

©2011 HP Restricted. For HP and HP Channel Internal Use Only.

УПРАВЛЕНИЕ ЖИЗНЕННЫМ ЦИКЛОМ ОТ HP

Application Lifecycle Management

- Планирование и отслеживание проекта
- Корпоративное управление релизами
- Application Lifecycle Intelligence

Управление Требованиями

- Определение требований
- Управление требованиями

Управление разработкой

- Гибкое управление проектами
- Управление дефектами
- Безопасная разработка

Управление Качеством

- Функциональное
- Нагрузочное
- Безопасность

Виртуализация Сервисов

Новое

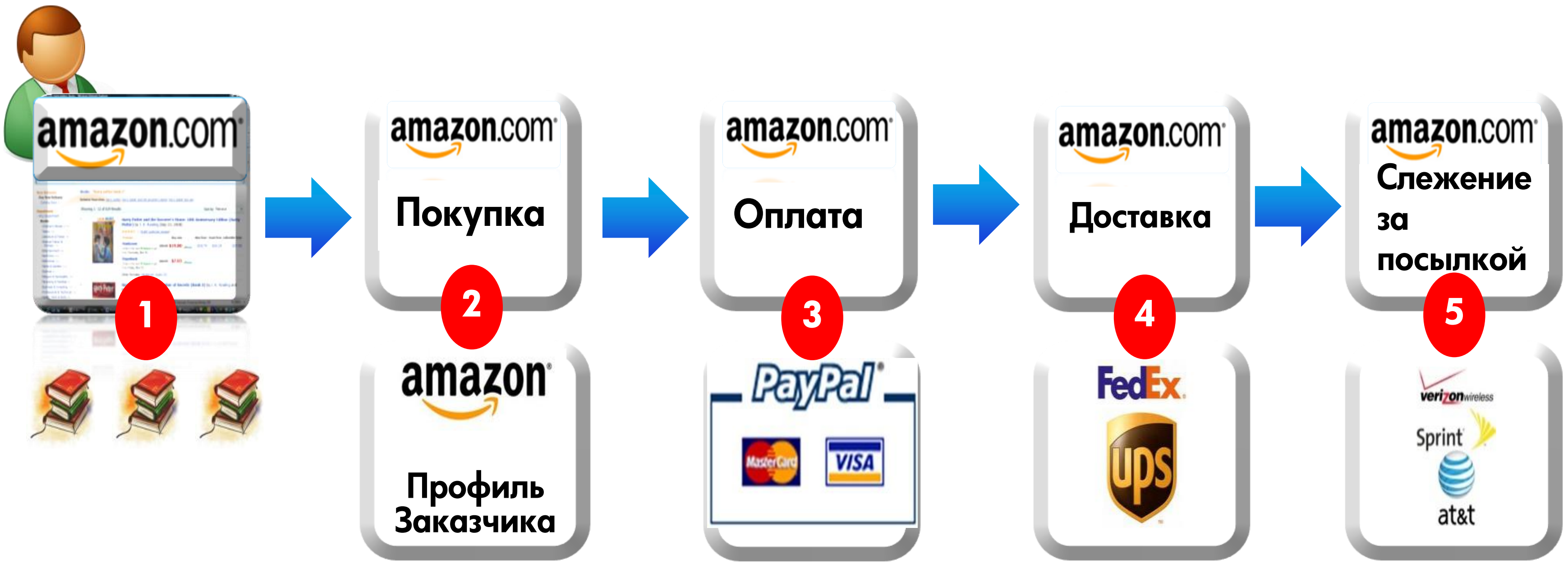
Платформа

- Трассировка
- Процесс заказчика (Водопад, Agile)
- Отчетность
- Расширения (Открытые API)

©2011 HP Restricted. For HP and HP Channel Internal Use Only.

КЛАССИЧЕСКИЙ БИЗНЕС ПРОЦЕСС СЛОЖНОГО ПРИЛОЖЕНИЯ

Поиск → Покупка → Оплата → Доставка → Трассировка



1

amazon.com
Покупка
2
amazon
Профиль Заказчика

amazon.com
Оплата
3

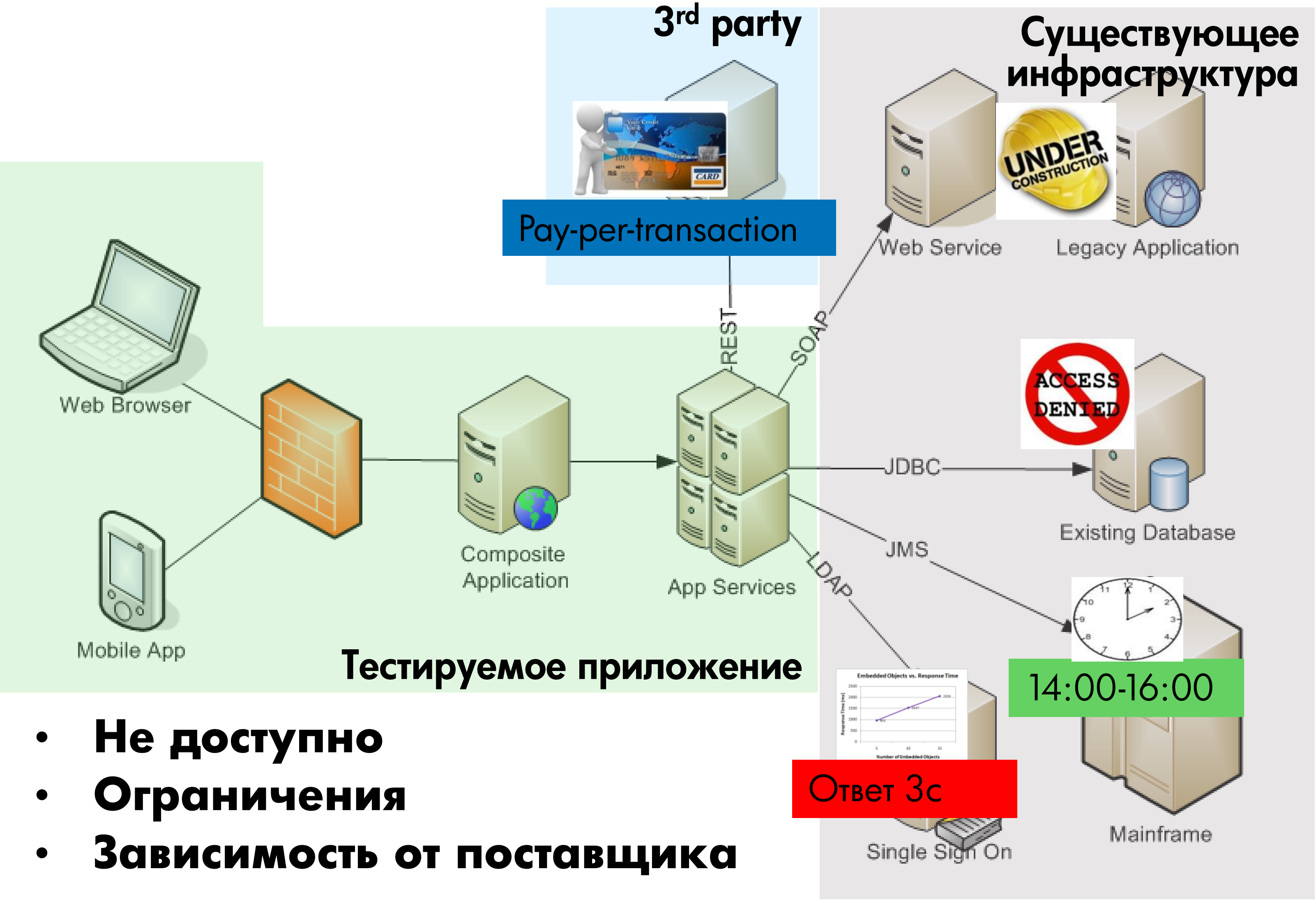
amazon.com
Доставка
4

amazon.com
Слежение за посылкой
5

amazon.com
PayPal
MasterCard
VISA
FedEx
ups
verizon wireless
Sprint
at&t

©2011 HP Restricted. For HP and HP Channel Internal Use Only.

ПРЕДПОСЫЛКИ К ВИРТУАЛИЗАЦИИ В НАСТОЯЩЕМ КОМПОЗИТНОМ СЕРВИСЕ


3^{rd} party
Существующее инфраструктура
Pay-per-transaction
CARD
UNDER CONSTRUCTION
Web Service
Legacy Application
REST
SOAP
Web Browser
ACCESS DENIED
JDBC
Composite Application
App Services
JMS
LDAP
Existing Database
Mobile App
Тестируемое приложение
Embedded Objects vs. Response Time
14:00-16:00
Ответ 3с
Single Sign On
Mainframe

- **Не доступно**
- **Ограничения**
- **Зависимость от поставщика**

HP SERVICE VIRTUALIZATION

Временная замена сервису

Сервисы 3-их сторон

HR

гео

вебсайт

вики

биллинг

ERP

PoS

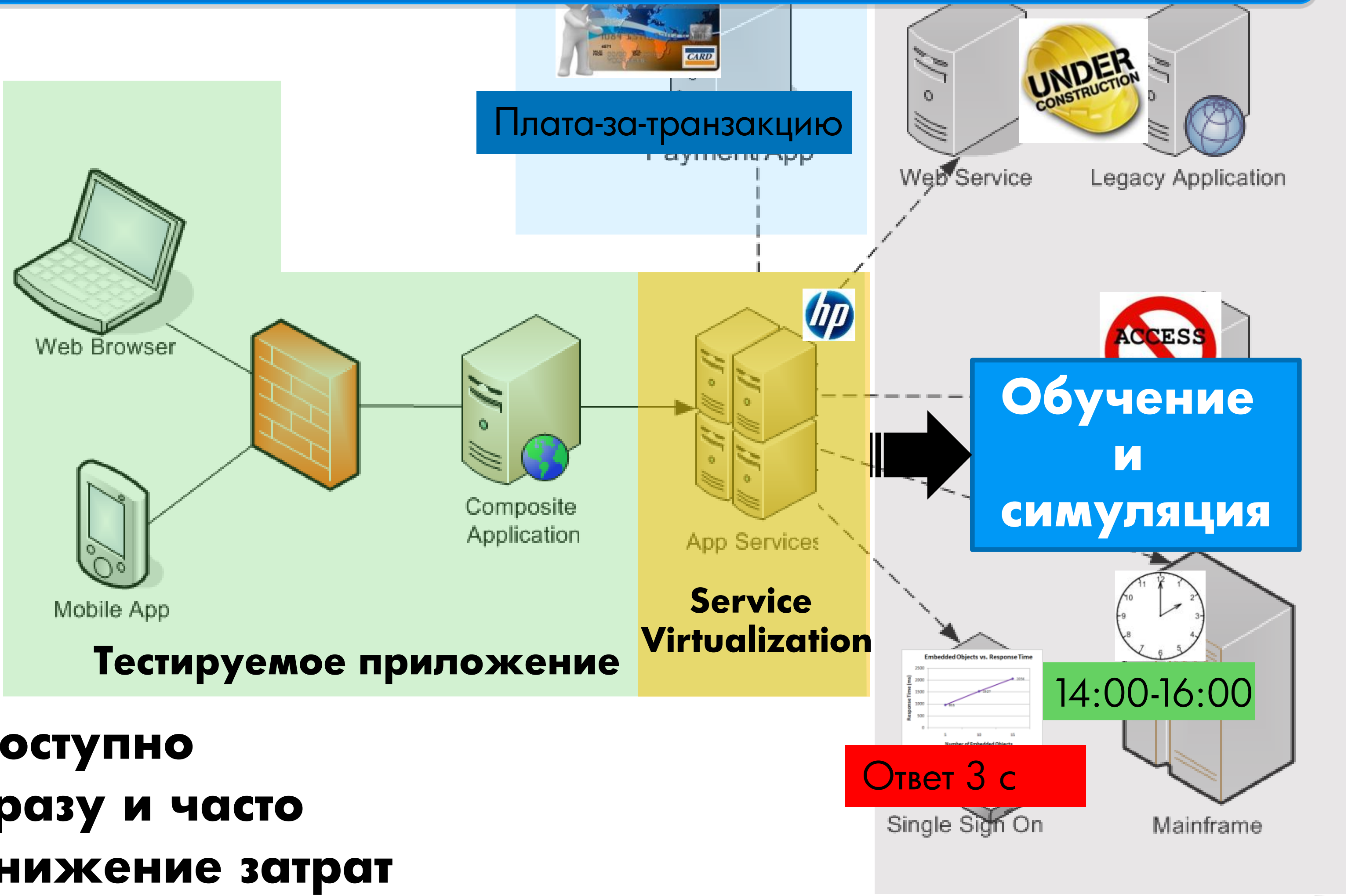
Мобильные приложения

Встроенное ПО

оплата

HP SERVICE VIRTUALIZATION - СНЯТИЕ ОРГАНИЧЕНИЙ

Тестирование на виртуальных сервисах


CARD
Payment App
Web Service
UNDER CONSTRUCTION
Legacy Application
Web Browser
Composite Application
App Services
ACCESS
Mobile App
Embedded Objects vs. Response Time
Single Sign On
Mainframe

Плата-за-транзакцию

Обучение и симуляция

Service Virtualization

Тестируемое приложение

14:00-16:00

Ответ 3 с

- **Доступно**
- **Сразу и часто**
- **Снижение затрат**

Данные

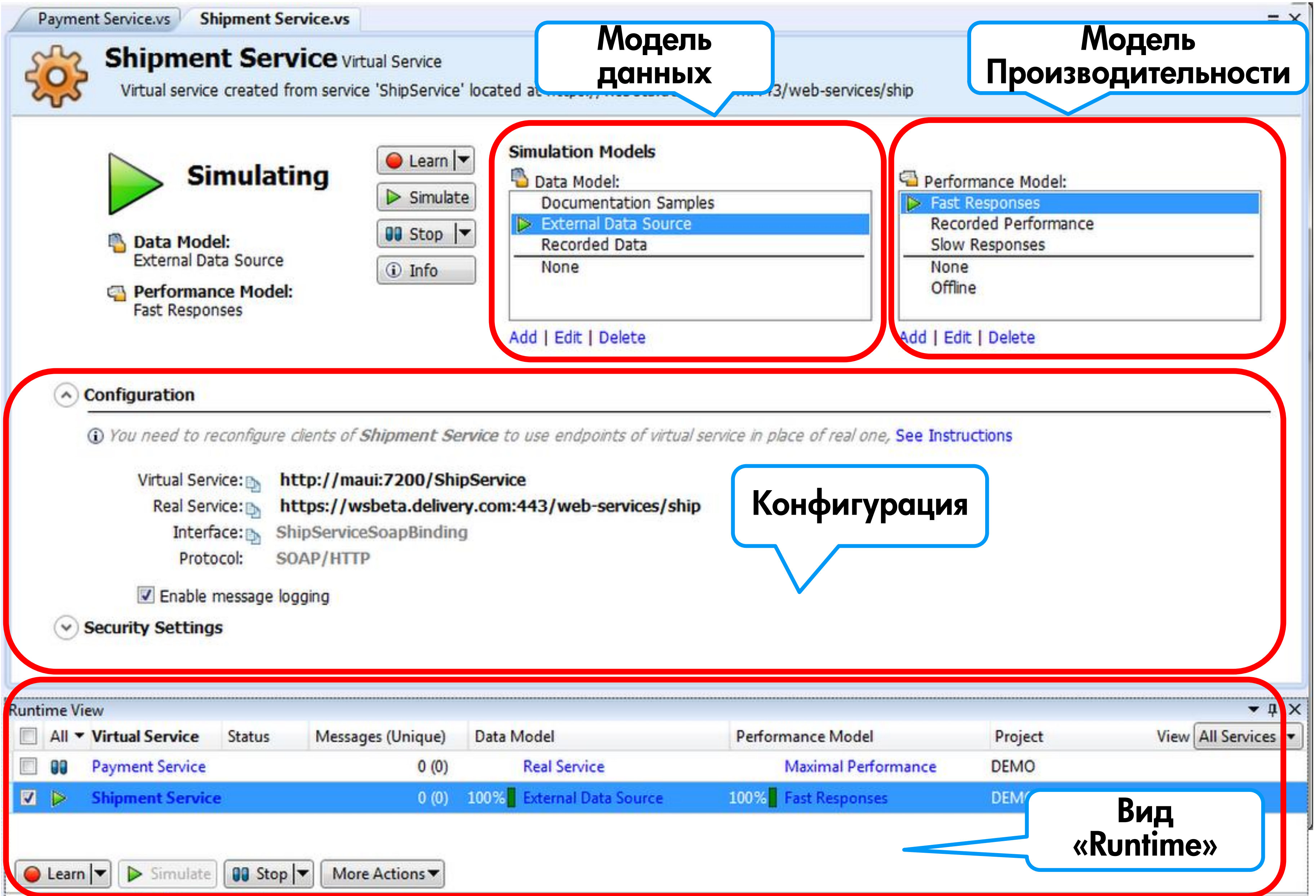
Производительность

Конфигурация

КАК ЭТО РАБОТАЕТ

© Copyright 2010 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

HP SERVICE VIRTUALIZATION ДИЗАЙНЕР


Payment Service.vs
Shipment Service.vs
Learn
Simulate
Stop
Info
Add | Edit | Delete
Add | Edit | Delete
Learn
Simulate
Stop
More Actions

Модель данных

Модель Производительности

Shipment Service Virtual Service

Virtual service created from service 'ShipService' located at https://wsbeta...3/web-services/ship

Simulating

Data Model: External Data Source

Performance Model: Fast Responses

Simulation Models

Data Model:
- Documentation Samples
- External Data Source
- Recorded Data
- None

Performance Model:
- Fast Responses
- Recorded Performance
- Slow Responses
- None
- Offline

Configuration

*You need to reconfigure clients of **Shipment Service** to use endpoints of virtual service in place of real one,* See Instructions

Virtual Service: **http://maui:7200/ShipService**
Real Service: **https://wsbeta.delivery.com:443/web-services/ship**
Interface: ShipServiceSoapBinding
Protocol: SOAP/HTTP

☑ Enable message logging

Security Settings

Конфигурация

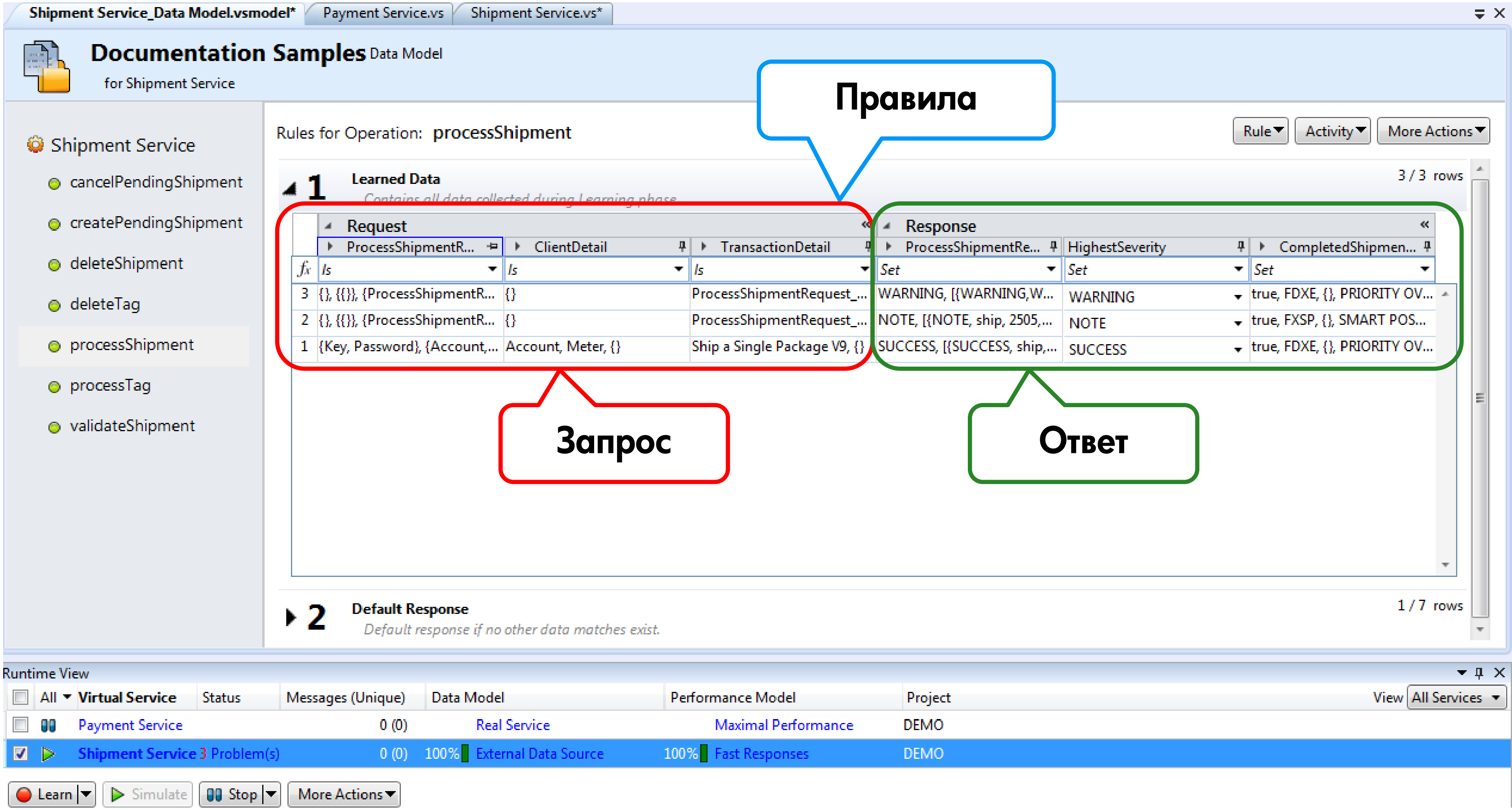
Runtime View

☐	All	**Virtual Service**	Status	Messages (Unique)	Data Model	Performance Model	Project
☐		Payment Service		0 (0)	Real Service	Maximal Performance	DEMO
☑		Shipment Service		0 (0)	100% External Data Source	100% Fast Responses	DEM

View: All Services

Вид «Runtime»

МОДЕЛЬ ДАННЫХ


Shipment Service_Data Model.vsmodel*
Payment Service.vs
Shipment Service.vs*
Правила
Запрос
Ответ
Rule
Activity
More Actions
Learn
Simulate
Stop
More Actions

Documentation Samples Data Model
for Shipment Service

Shipment Service
- cancelPendingShipment
- createPendingShipment
- deleteShipment
- deleteTag
- processShipment
- processTag
- validateShipment

Rules for Operation: processShipment

1 **Learned Data** 3 / 3 rows
Contains all data collected during Learning phase

	Request			Response		
	ProcessShipmentR...	ClientDetail	TransactionDetail	ProcessShipmentRe...	HighestSeverity	CompletedShipmen...
fx	Is	Is	Is	Set	Set	Set
3	{}, {{}}, {ProcessShipmentR...	{}	ProcessShipmentRequest_...	WARNING, [{WARNING,W...	WARNING	true, FDXE, {}, PRIORITY OV...
2	{}, {{}}, {ProcessShipmentR...	{}	ProcessShipmentRequest_...	NOTE, [{NOTE, ship, 2505,...	NOTE	true, FXSP, {}, SMART POS...
1	{Key, Password}, {Account,...	Account, Meter, {}	Ship a Single Package V9, {}	SUCCESS, [{SUCCESS, ship,...	SUCCESS	true, FDXE, {}, PRIORITY OV...

2 **Default Response** 1 / 7 rows
Default response if no other data matches exist.

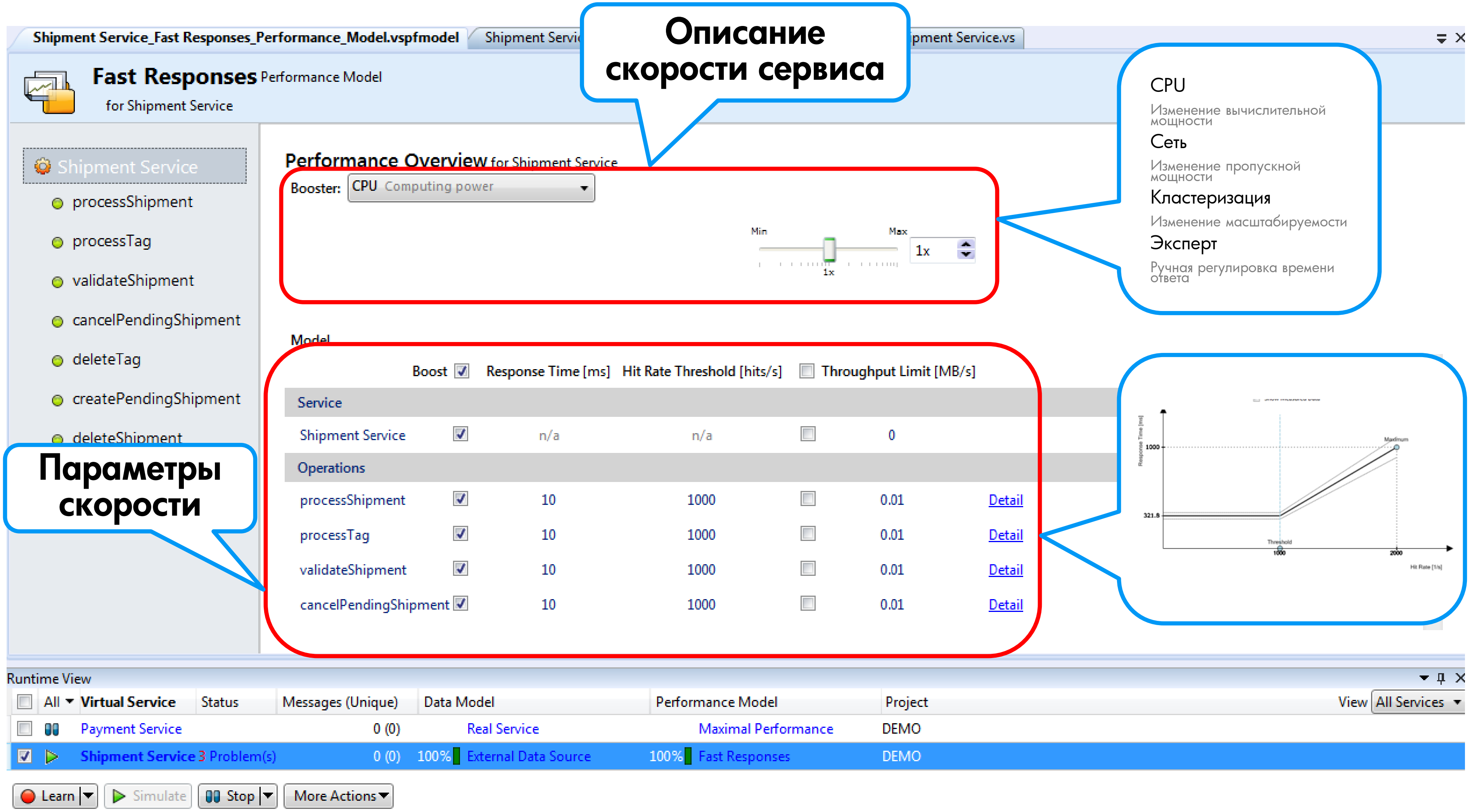
Runtime View

☐ All	Virtual Service	Status	Messages (Unique)	Data Model	Performance Model	Project
☐	Payment Service		0 (0)	Real Service	Maximal Performance	DEMO
☑	Shipment Service 3 Problem(s)		0 (0)	100% External Data Source	100% Fast Responses	DEMO

View: All Services

©2011 HP Restricted. For HP and HP Channel Internal Use Only.

МОДЕЛЬ ПРОИЗВОДИТЕЛЬНОСТИ



Описание скорости сервиса

CPU
Изменение вычислительной мощности
Сеть
Изменение пропускной мощности
Кластеризация
Изменение масштабируемости
Эксперт
Ручная регулировка времени ответа

Параметры скорости

Shipment Service_Fast Responses_Performance_Model.vspfmodel | Shipment Servi | pment Service.vs

Fast Responses Performance Model
for Shipment Service

Shipment Service
- processShipment
- processTag
- validateShipment
- cancelPendingShipment
- deleteTag
- createPendingShipment
- deleteShipment

Performance Overview for Shipment Service

Booster: CPU Computing power

Min Max 1x

Model

	Boost ☑	Response Time [ms]	Hit Rate Threshold [hits/s]	☐	Throughput Limit [MB/s]	
Service						
Shipment Service	☑	n/a	n/a	☐	0	
Operations						
processShipment	☑	10	1000	☐	0.01	Detail
processTag	☑	10	1000	☐	0.01	Detail
validateShipment	☑	10	1000	☐	0.01	Detail
cancelPendingShipment	☑	10	1000	☐	0.01	Detail

Runtime View

☐ All	Virtual Service	Status	Messages (Unique)	Data Model	Performance Model	Project
☐	Payment Service		0 (0)	Real Service	Maximal Performance	DEMO
☑	Shipment Service	3 Problem(s)	0 (0)	100% External Data Source	100% Fast Responses	DEMO

View: All Services

©2011 HP Restricted. For HP and HP Channel Internal Use Only.

ПОДДЕРЖИВАЕМЬЕ СЕРВИСЬ

- Supported in 1.0
  - Generic JMS
  - Tibco JMS
  - WCF/WS
  - Other/Proprietary

- Added support in 1.1
  - MQ

©2011 HP Restricted. For HP and HP Channel Internal Use Only.

БОЛЬШЕ ИНФОРМАЦИИ?

JOIN

the HP Software Solutions Community

www.hp.com/communities/SV

www.hp.com/go/sv

© Copyright 2010 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

ВОПРОСЫ
И
ОТВЕТЫ?

© Copyright 2011 Hewlett-Packard Development Company, L.P. | Date or Rev. #