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CONFIRMATION NO. 2195

21912

VAN PELT, YI & JAMES LLP
10050 N. FOOTHILL BLVD #200
CUPERTINO, CA 95014

FILING RECEIPT



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Date Mailed: 10/08/2010

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Applicant(s)

Gregory G. Raleigh, Woodside, CA;

Power of Attorney:

Michael Schallop--44319

If Required, Foreign Filing License Granted: 10/05/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 61/385,020**

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Early Publication Request: No
Title

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page 1 of 3

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Provisional Application for Patent Cover Sheet

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c)

Inventor(s)

Inventor 1

Remove

Given Name	Middle Name	Family Name	City	State	Country i
Gregory	G.	Raleigh	Woodside	CA	US

All Inventors Must Be Listed – Additional Inventor Information blocks may be generated within this form by selecting the **Add** button.

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Title of Invention	SERVICE USAGE RECONCILIATION SYSTEM OVERVIEW
Attorney Docket Number (if applicable)	RALEP036+

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Direct all correspondence to (select one):

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

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Entity Status

Applicant claims small entity status under 37 CFR 1.27

- ☐ Yes, applicant qualifies for small entity status under 37 CFR 1.27
- ☒ No

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Signature

Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Michael J. Schallop/			Date (YYYY-MM-DD)	2010-09-21
First Name	Michael J.	Last Name	Schallop	Registration Number (If appropriate)	44319

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ItsOn, Inc.

System Scalability Document

Version 1

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Flow Summary

The network flow diagram can be found in ItsOn System Overview Diagram.

Carrier RTR Records

- 1) Carrier RTR connects to ItsOn RTR Filtering application
- 2) RTR Filter accepts message then determines if device is known to ItsOn
 - a. Records from unknown devices are dropped on the floor
 - b. Records from known devices are put onto JMS queue for processing
- 3) ItsOn RTR Processor takes record from JMS queue then transforms the record to store in DB for later use
 - a. DB record will be used for Fraud Analysis and uCDR generation
 - b. Record is archived in Data Warehouse

ItsOn Device Usage Reports

- 1) ItsOn client periodically connects to ItsOn Usage Reporting Gateway
- 2) Usage Reporting Gateway accepts connection from client for authentication
 - a. Gateway accepts report from authenticated clients and places report on JMS queue for processing
 - b. Client connections that fail authentication are rejected
- 3) ItsOn Usage Report Processor (EAI) takes report from JMS queue then transforms report to store in DB for later use
 - a. DB record will be used for Fraud Analysis and uCDR generation
 - b. Record is archived in Data Warehouse

OfferSet Publishing to device

- 1) SDC is utilized to create OfferSet
- 2) SDC stores OfferSet in Database backed message queue
- 3) When ItsOn client connects to Gateway for Usage Report upload, Gateway pushes OfferSet to device

Scalability Points

The lightweight and stateless design of the ItsOn Server applications allow for horizontal scaling. The server instances will be deployed in a high performance virtualized environment to support high density and rapid scaling on demand.

(1) RTR Filtering

The purpose of this application is to quickly receive and acknowledge an RTR record to provide asynchronous functionality because of the real-time processing requirements. Filtering is done to eliminate unnecessary load on the JMS queue.

Modeling Performance

The functionality of this application will be very similar to that of the ItsOn Usage Report Gateway. Our performance benchmarks of the Usage Report Gateway give us an approximation of the expected performance of this application. The measured throughput of this comparable application is **4000 TPS**. Accurate benchmark numbers will not be possible until an RTR simulator is available.

(2) RTR Processing

This application pulls the RTR records from the JMS queue, transforms the record, and stores the transformed record in the database. This is done in a single transaction in order to provide fault tolerance in case of system failure.

Modeling Performance

The functionality of this application will be very similar to that of the ItsOn Usage Report Processor (EAI.) We are confident that the benchmarks of the Usage Report Processor will be comparable to that of the RTR Processor. The current measure throughput is **110 TPS** but is expected to rise considerably after tuning.

(3) ItsOn Usage Reporting Gateway

The purpose of this application is to quickly receive and acknowledge ItsOn Client Usage Reports. This provides asynchronous functionality needed to support the real-time requirements. Authentication of the device is done before reports are put on the JMS queue.

Modeling Performance

We have recently measured throughput of **1900 TPS** on a single instance of the ItsOn Gateway. This number was achieved before any Database tuning or in-depth JMS queue tuning. Although performance of the Gateway can likely be improved upon, the Gateway will not be the initial target of performance tuning.

(4) ItsOn Usage Report Processor

This application pulls the Usage Reports from the JMS queue, transforms the report, and stores the transformed record in the database. This is done in a single transaction in order to provide fault tolerance in case of system failure.

Modeling Performance

We have recently measured throughput of **110 TPS** on a single instance of the ItsOn Usage Report Processor. This number is expected to be improved upon greatly as it will be the primary focus of optimization and tuning. The current internal goal is **400 TPS**. This target TPS will give us a very manageable scaling factor with regards to instance deployments within the ItsOn datacenter.

(5) uCDR Generator

Development needed to incorporate the RTR feeds from Carrier.

Modeling Performance

Modeling the performance will be difficult until we get more precise requirements for the outputs.

(6) FTP or Publisher

This application will be in development soon to support the RTR feeds from Carrier.

Modeling Performance

Modeling the performance will be difficult until we get more precise requirements for the outputs.

(7) Fraud Analyzer

This application will be in development soon to support the RTR feeds from Carrier.

Modeling Performance

Modeling the performance will be difficult until we get more precise requirements for the outputs.

(8) ItsOn OfferSet Gateway

This application is hit significantly less often than the Usage Reporting Gateway. It is part of the Usage Reporting Gateway so performance measurements will be included in those benchmarks.

Modeling Performance

More precise modeling will occur when the average OfferSet size is determined. Some assumptions can be made and included in current modeling. This traffic will represent **less than 1%** of overall traffic with the assumption that OfferSet are pushed at a rate of once per two weeks.

(9) SDC

This is a basic web application that will have an extremely low impact on the platform relative to the other applications. We will deploy 2 VMs in each datacenter to provide redundancy.

Modeling Performance

This web application will be easy to tune. Modeling performance will come later if at all.

Modeling Notes

The modeling spreadsheet is called ItsOn_System_Scaling_Model-v1.xlsx.

1. The number of transactions per day from the ItsOn Client used in the scaling models is a conservative estimate. The actual number is expected to be lower.
2. The network traffic flows from the device to the ItsOn servers.
3. OfferSet traffic is to the client so it is not added to overall required bandwidth.
4. JMS tuning has not begun. Overall performance will improve once JMS tuning is complete.
5. Database tuning has not begun. Overall performance will improve once database tuning is complete.
6. The VMware density number used in the model is conservative and upon tuning, density will likely be higher than this.
7. RTR Filters and Processor instances can share VMware hosts with Gateway and EAI thus increasing overall density.
8. Request for Analytics came recently. Modeling TBD.

ItsOn Platform Scaling Timeline

The Platform Scaling Timeline is in ItsOn Platform Scaling Timeline.

MSP Evaluation

ItsOn evaluated 5 Managed Services Providers and have down selected to two candidate providers.

Phase 1 Benchmarking

Application benchmarking was performed to produce inputs for the scaling models. The Usage Report Gateway and Usage Report Processor (EAI) were the focus of these benchmarks. These numbers were used to model expected performance of the RTR Filter and RTR Processor.

JMS Tuning

The JMS queue is an integral part of the ItsOn platform. It is the primary messaging system between applications and thus is required to maintain full persistence. Performance is expected to increase as the persistence back-end and network transports are optimized.

Scaling Network Deployment

ItsOn is ready to begin deployment of a scaling network sized based on either the 1 or 5 million sub model. This deployment will be used for RTR benchmarking and to exercise the ItsOn client scaling models. It will allow for a higher volume of load testing clients via cloud based services.

Database Tuning

ItsOn will be focusing on tuning Oracle to improve EAI performance as well as uCDR and Fraud analysis.

Usage Report Processor Tuning

The Usage Report Processor is known internally as EAI. It is currently the primary bottleneck between the ItsOn client and database. We are targeting 4x improvement in performance through optimization of the transaction manager that controls JMS and database communication.

RTR Scaling Benchmarks

The goal is to exercise the end-to-end performance of processing a simulated RTR feed.

ItsOn Device Client Scaling Benchmarks

ItsOn will utilize a cloud based service to perform extensive load testing using client simulation software. The goal of these benchmarks is to verify the scaling models and identify hotspots to target during the next tuning phase.

RTR Application Tuning

The RTR Filter and Processing applications will be tuned if necessary based on the findings from the benchmarks.

ItsOn Application Tuning

Any performance issues identified during the benchmarks will be targeted for optimization to improve performance of the ItsOn applications.

RTR Network Integration with Carrier

Our goal is to begin the process of integrating ItsOn scaling network with the Carrier test network to allow for scalability testing by Carrier.

Integrated Platform Benchmarks

This phase will focus on overall performance of the platform while benchmarking RTR and ItsOn client inputs and outputs concurrently. The goal is to exercise the scaling capacity of the entire platform as it would be stressed in production.

Integrated Platform Tuning

Any scalability issues identified during the benchmarks will be targeted for optimization to improve overall performance of the platform.

Hardware

Our initial scaling benchmark network will be sized to either the 1 or 5 million sub model. The 5 million sub model is detailed below.

Network

All network hardware will be deployed in an HA configuration to provide both failover redundancy and load balancing.

Element	Make and Model	Notes
Load Balancer	F5 LTM	BIGIP 3600
Firewall	Cisco ASA 5500 Series	280,000+ concurrent conns
Bandwidth	10 Mbps CIR	Burstable to 100 Mbps
Switches	Cisco Catalyst 2948	10/100/1000

VMware Instances

The number of instances for each application will be adjusted according to load observed during benchmarking. The VMware density will support these adjustments.

- 16 EAI VM instances
 1. 2x VPU
 2. 4GB VRAM
- 2 Gateway VM instances
 1. 2x VPU
 2. 4GB VRAM
- 2 RTR Filter VM instances
 1. 2x VPU
 2. 4GB VRAM
- 2 RTR Processor VM instances
 1. 2x VPU
 2. 4GB VRAM
- 2 SDC Web Server VM instances
 1. 1x VPU
 2. 2GB VRAM
- 2 SDC App Server VM instances
 1. 1x VPU
 2. 2GB VRAM
- 2 management VM instances
 1. 1x VPU
 2. 2GB VRAM

VMware Hosts

5 physical servers

- IBM x3850 X5 - Hex-Core Intel
- 48GB RAM
- SAN Storage for VM images (EMC-CX4-120)
- RHEL

JMS Servers

2 physical servers

- IBM x3650 M2 - Quad-Core Intel
- 24GB RAM
- SAN for persistence logs (EMC-CX4-120)
- RHEL 5

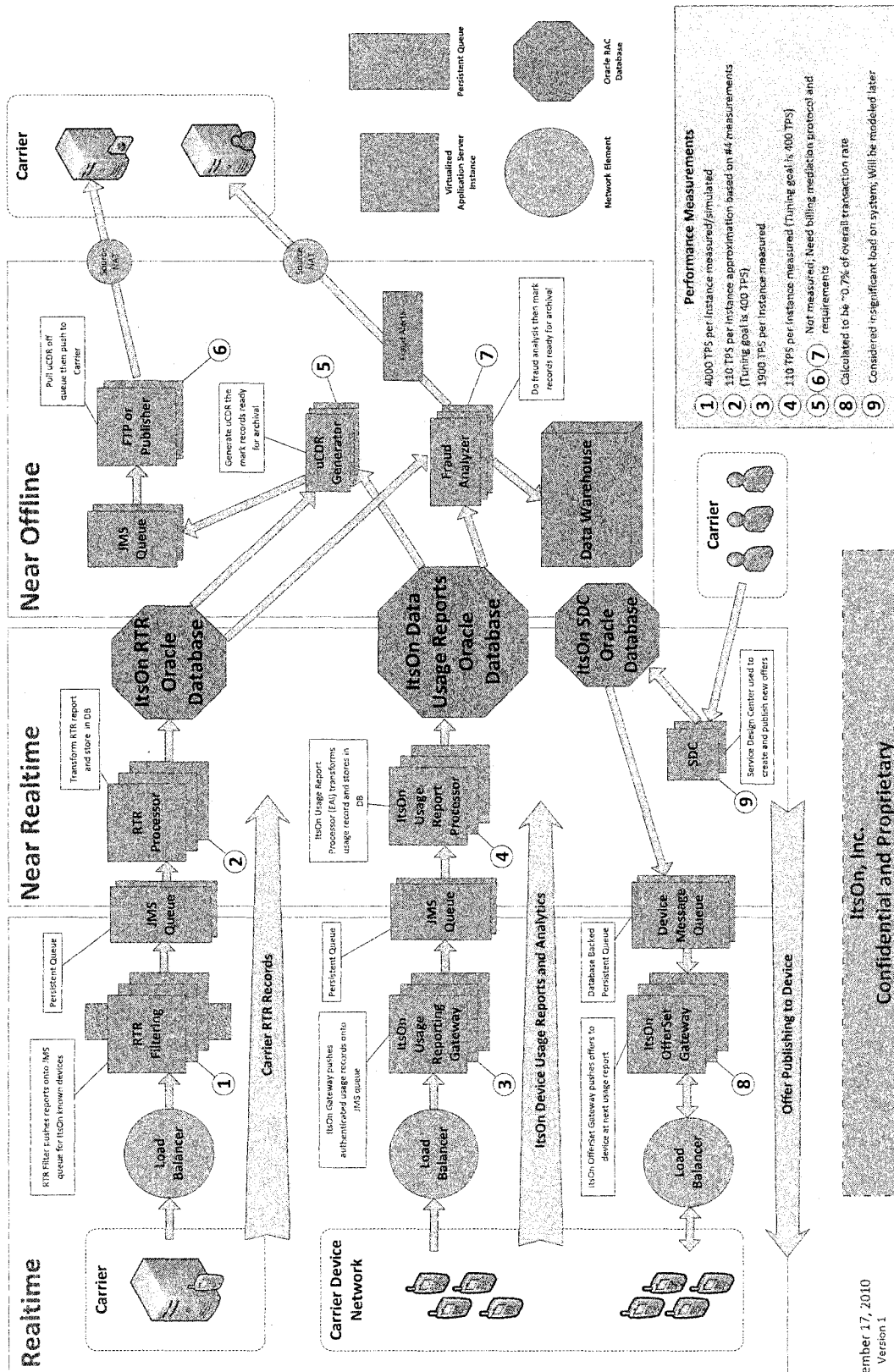
Database Servers

2 physical servers

- IBM x3850 - Hex-Core Intel
- 144GB RAM
- 2TB SAN storage (EMC-CX4-120)
- RHEL 5
- Oracle RAC 11g R2

Geo-Redundancy

ItsOn will deploy to geographically diverse datacenters and utilize the F5 GTM to manage active-active geo-redundancy. Oracle RAC will be configured to maintain database consistency between sites.



ItsOn, Inc.
Confidential and Proprietary

September 17, 2010
Version 1

Electronic Patent Application Fee Transmittal				
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Filing Date:				
Title of Invention:		SERVICE USAGE RECONCILIATION SYSTEM OVERVIEW		
First Named Inventor/Applicant Name:		Gregory G. Raleigh		
Filer:		Michael J. Schallop/Veronica Pula		
Attorney Docket Number:		RALEP036+		
Filed as Large Entity				
Provisional Filing Fees				
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Provisional application filing	1005	1	220	220
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Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				220

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First Named Inventor/Applicant Name:	Gregory G. Raleigh
Customer Number:	21912
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Warnings:					
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3	Drawings-only black and white line drawings	RALEP036plus_Figures.pdf	1343470 259e6ee07205c5ccf6b0eae73203e0fc3561f531	no	1
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