

BlueWater Software Overview:

Auto Loading Supplier Cost/Code Analysis – Intelligent Routing

Reporting – Rating & Billing

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BlueWater Supplier Cost/Code Upload Overview:

BlueWater Software allows the user, the ability:

- **Manually upload** all incoming supplier cost/code sheet, in the native file format of the supplier, the supplier costs, destination codes, currency, and effective date. Specific Users get supplier analysis sheets of all increases/decrease for each supplier sheet loaded.

Or

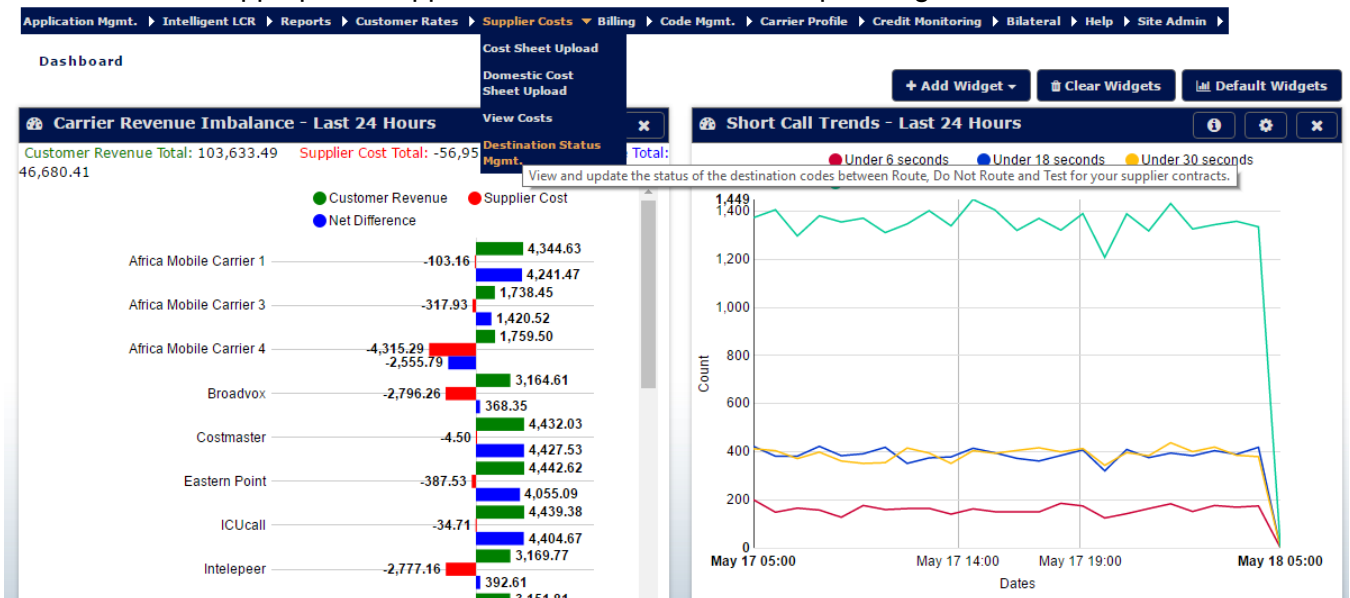
- **Subscribe to our BlueWater “AutoLoad Service”** – in which all supplier cost/code sheets are automatically loaded into our customer’s assigned BlueWater software. The supplier sheets can be delivered via email or via FTP process. The User get a daily summary of those loaded suppliers.

During the Manual or AutoLoad supplier cost/code upload process, the BlueWater software checks:

- errors / duplicates / missing data
- new codes
- new costs (decreases / increases)
- Contractual notice period for increases/decreases
- compares new costs against existing costs for both absolute and margin changes in a shared, color coded file by each supplier
- adds the new destination codes to the RouteTo master code list.

In addition, BlueWater uniquely stores the naming convention of each supplier, so as to present accounts payable with ease of supplier invoice reviews. Below are a series of screen shots the BlueWater user would see during the manual supplier upload process:

The user selects the appropriate supplier and chooses the file for uploading:



The user chooses the supplier for manual upload OR if using **AutoLoad services**, then all supplier cost/codes are automatically loaded via email and/of FTP delivery. Note that a User can auto add the supplier’s destination codes to our customer’s master destination code list for routing.

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Supplier Costs | Cost Sheet Upload

Upload Summary Errors Warnings New Codes Cost Analysis

Supplier: Tata / Wholesale / Active

Template: TATA

Replacement Method: Don't replace any costs or codes

☒ Reprocess Backdated Costs?

Cost File: Choose File No file chosen

High Cost Difference Amount: 1

☒ Add new Supplier Codes as 'Route To' Customer Destination Codes?

Upload File

Reminder: Be sure to click on the "Load Valid Costs" button before exiting this page.

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Upon loading, the user is given a summary of the outcomes of the new codes, errors and cost comparisons for international traffic offers from suppliers:



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Supplier Costs | Cost Sheet Upload

Upload Summary Errors Warnings New Codes Cost Analysis

| Summary | Count |
|-------------|-------|
| Errors | 0 |
| Warnings | 3874 |
| New Codes | 3776 |
| Valid Costs | 98 |

Reminder: Be sure to click on the "Load Valid Costs" button before exiting this page.
Costs for **Tata / Wholesale / Active** in **US Dollar** with a current Exchange Rate of **1.0000**.

Errors in the Supplier's cost sheet are identified to the user and either corrected on the screen or not loaded in the supplier's data base and sent back to the supplier for correction by the supplier. Duplicates and missing destinations are the most common errors that need correction by a supplier.

Supplier Costs | Cost Sheet Upload

Upload Summary Errors Warnings New Codes Cost Analysis

| | | |
|--|----|----------|
| (1) Missing customer destination parent code | 52 | Expand |
| (1) Invalid/missing cost | 2 | Expand |
| (1) Duplicate destination entries | 3 | Collapse |

| Destination Name | Code | Cost | Start Date | Time of Day | Edit |
|---------------------------|------|-------|------------|--------------|------|
| Afghanistan Roshan Mobile | 9379 | 0.184 | 10/10/2017 | 0:00 - 23:59 | Edit |
| Afghanistan Roshan Mobile | 9379 | 0.183 | 10/10/2017 | 0:00 - 23:59 | Edit |
| Afghanistan Roshan Mobile | 9379 | 0.176 | 10/10/2017 | 0:00 - 23:59 | Edit |

Reminder: Be sure to click on the "Load Valid Costs" button before exiting this page.
Costs for **Tata / Wholesale / Active** in **US Dollar** with a current Exchange Rate of **1.0000**.

In the Cost Analysis tab of international cost/code sheets, the user gets both a summary by destination group and detail by destination code, of the cost changes associated with the new supplier cost/code sheet, when compared with prior uploads for that supplier. BlueWater also performs a Replace All function if required by the supplier. User has an easy to read, exportable file of the cost/code analysis. Once accepted, all identified employees are emailed the results of the supplier cost/code upload.

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Supplier Costs | Cost Sheet Upload

Upload Summary Errors Warnings New Codes **Cost Analysis**

Analysis Type Filter: Country Code Filter:

No Filter No Filter

Changes Only
No Change
Increases
Decreases
New Codes
New Destinations
Deleted Destinations
Deleted Codes
Warnings
Conflicts
Errors
Blocked Codes

Export Summary Export Detail Load Valid Costs

| | Current Cost | Current Start Date | Current TOD | New Cost | New Start Date | New TOD | Type | Change | % Change | Description |
|-----------------------------|--------------|--------------------|----------------|----------|----------------|----------------|------|----------|----------|---|
| Mobile | 0.2037 | 1/1/2009 | (0:00 - 23:59) | 0.1860 | 2/24/2011 | (0:00 - 23:59) | ▼ | (0.0177) | (8.68) | (1) Short notice decrease (2) Valid cost decrease (3) Valid new destination |
| | 0.1994 | 1/1/2009 | (0:00 - 23:59) | 0.1740 | 2/24/2011 | (0:00 - 23:59) | ▼ | (0.0254) | (12.73) | (1) Short notice decrease (2) Valid cost decrease (3) Valid new destination |
| Afghanistan Awcc Mobile | 0.2000 | 1/1/2009 | (0:00 - 23:59) | 0.1750 | 10/27/2010 | (0:00 - 23:59) | ▼ | (0.0250) | (12.50) | (1) Short notice decrease (2) Valid cost decrease (3) Valid new destination |
| Afghanistan Etisalat Mobile | 0.2012 | 1/1/2009 | (0:00 - 23:59) | 0.1700 | 12/2/2010 | (0:00 - 23:59) | ▼ | (0.0312) | (15.50) | (1) Short notice decrease (2) Valid cost decrease (3) Valid new destination |
| Afghanistan Other | 0.1855 | 1/1/2009 | (0:00 - 23:59) | 0.2200 | 3/16/2011 | (0:00 - 23:59) | ▲ | 0.0345 | 18.59 | (1) Short notice increase (2) Valid cost increase (3) Valid new destination |
| Afghanistan Roshan Mobile | 0.2058 | 1/1/2009 | (0:00 - 23:59) | 0.1840 | 2/24/2011 | (0:00 - 23:59) | ▼ | (0.0218) | (10.59) | (1) Short notice decrease (2) Valid cost decrease (3) Valid new destination |
| AFGHANISTAN-MOBILE | 0.2046 | 1/1/2009 | (0:00 - 23:59) | | | | — | | | (1) Valid deleted code |
| Albania Eagle Mobile | 0.2562 | 1/1/2009 | (0:00 - 23:59) | 0.1700 | 1/7/2011 | (0:00 - 23:59) | ▼ | (0.0862) | (33.64) | (1) Short notice decrease (2) Valid cost decrease (3) Valid new destination |

Notification alerts to designated users of the new supplier cost increases / decreases is set up via the Cost Sheet Profile:

Application Mgmt. | Intelligent LCR | Reports | Customer Rates | Supplier Costs | Billing | Code Mgmt. | Carrier Profile | Site Admin

Application Mgmt. / Update Cost Sheet Profile

Update Cost Sheet Profile

Cost Sheet Profile

All of the below values are defaults, and can be reconfigured on the Cost Sheet Upload page.

Upload By:
☒ Supplier ☐ Contract
Allows cost sheets to be uploaded against a single, selectable Supplier or a single, selectable Contract.

High Cost Difference Amount:

Allows users to set maximum cost difference between current costs and uploaded costs. Exceeding this limit will result in warning.

☐ Skip the Approval Process for new Supplier Codes?
Allows costs to bypass the Marketing Review, NOC Review and Final Approval process in Blue Water and make supplier costs and cc immediately available to routing.

☒ Add new Supplier Codes as 'Route To' Customer Destination Codes?
All newly added supplier codes will be flagged as 'Route To'.

☒ Add new Supplier Codes to the system recommended Customer Destination Code Group?
All newly added supplier codes will automatically be assigned to the closest Customer Destination Code Group based on Code Mapping Blue Water. Users may change the recommended assignment or accept it.

☒ Preserve Status?
Allows supplier codes and costs already in Blue Water to retain their current 'Route' or 'Do Not Route' status.

☒ Reprocess Backdated Costs?
Costs updated up to 7 days in the past will be reprocessed at midnight. Reprocessing beyond 7 days needs to be requested via the S page.

The Employees who receive a Notification Email cannot be changed on the Cost Sheet Upload page.

| Employee Name | Email Address | Groups |
|---|----------------------------|-------------------|
| <input type="checkbox"/> Jen Olson | JOlson@PacWest.com | Customer Prospect |
| <input type="checkbox"/> Nikki Buonviri | NBuonviri@PacWest.com | Customer Prospect |
| <input type="checkbox"/> Paul Tucci | PTucci@TeleBill.com | Customer Prospect |
| <input type="checkbox"/> Praneesh Babu | Praneesh.Babu@sifycorp.com | Customer Prospect |
| <input type="checkbox"/> Rich Popper | Rich@TeleBill.com | Customer Prospect |
| <input type="checkbox"/> Robin Zhangy | Zhangyg@ChinaUnicom.cn | Customer Prospect |

For US Domestic cost / code sheets, the user chooses the US Domestic upload option, then chooses the type of costs (interstate or intrastate) that are to be loaded. If a supplier has 2 worksheets in a file containing these two call cost types, then the user loads the file twice, so as to update the correct data tables assigned to that carrier. During the upload process, the customer provided LERG table is used to confirm the correctness of the OCN/LATA and NPA/NXX code assignments for all world zone 1 from the

supplier. The user chooses during implementation how the non-48 states, Canada and other world zone 1 codes are to be treated and Orca Wave sets up the options per the requirements of our BlueWater customer

Below is a screen shot of the US Domestic UI:

Once new supplier cost/codes are uploaded, then a user generates new routing and does a “send to switch” with the new routing information from the cost and codes changes from the suppliers.

Below is an overview of the BlueWater Intelligent routing.

BlueWater Intelligent Routing Overview:

The Intelligent LCR module is one of the key software differentiators that Orca delivers to our customers because we:

- Fully support different Routing Plans – by Product, class of service, Business unit group, etc across multiple switches and switching platforms – Users have the ability to set up unique Routing/Product Plans with different QoS parameters, different supplier choices and different destination groups. (set up examples are below)
- Auto update from the BlueWater software directly to the switching platform(s) based on the testing/process goals of our customer
 - Orca team jointly tests with customer the routing script update process and methodology prior to moving to production. A customer can move through all 3 options below or work towards a specific option—with options 1 and 2 having tech review, while option 3 doing auto updates directly to the switch with notifications to the tech. The trigger for routing can be: 1) manually initiated 2) initiated by a set time every day or 3) via certain alarm conditions—which are custom to the routing set up.
- Support a variety of user determined Routing Rules each time routing is generated, such as:
 - Least cost routing – Analyses by each RouteTo Code against all supplier cost/code offering to determine best priced routing.

- QoS – Benchmarking Routing --- Allows user defined QoS – Quality Index based on ASR, ALOC (average duration) as well as defining number of calls needed to be considered. Can be default for all routes or by RouteTo code group
 - Lowest Customer Rate (truncates routing so as to not have negative margin) Notifies user of possible negative margin situation prior to routing being released, as well as hourly email alarming should condition occur
 - Supplier blocking by code – Allows user to ‘blacklist’ whole supplier and/or part of codes from a supplier
 - Time of day routing—Manage Peak/Off Peak offerings from suppliers
 - Percent routing – BlueWater matches the capabilities of the switching platform for Percent routing across multiple suppliers in a route, as well across multiple Trunk Groups of a supplier or to SIP Redirect routing server to assign percent allocations of calling
- Manually override or amend BlueWater software generated routing of Benchmark and/or Least cost routing with:
- Default Routing – Place strategic / bilateral supplier(s) in routing and then LCR for overflow options
 - Exception Routing – Instantly redo routing due to case of trouble for the User to determine the routing

The screen shots below depict:

- Generate New Routing
- Current & Proposed Routing table with color coding so routing rules are immediately known to user and provide user with review/analysis/overrides
- Modify Routing - Exception/Default routing – ease of manually creating routing changes
- Lowest Customer Rate alerts
- Benchmark set up – global and / or overridden by product / by destination
- Send to switch

Generate New Routing – User can choose different routing rules for different Route Plans, and then gets notified that routing is ready to be sent to switch. Note: Send to switch can be ‘user initiated’ or on a set time for auto-updates.



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Intelligent LCR | Generate New Routing

Schedule New Intelligent LCR Job

Switch-Partition:
Huawei II - Retail

Routing Methodology:
Benchmark Routing

Current Default Benchmark Calculation:
ASR = Average Duration * Minimum Calls Required = 45 * 180 * 250 = 2025000

Submit

Current Execution Status

Refresh

| Switch | Partition | Methodology | Current Status | Start Date | End Date | Started By |
|-----------|-----------------------|--------------------|--|-----------------------------------|-----------------------------------|-----------------|
| Huawei II | Retail | Benchmark Routing | Preliminary data generated and ready to send to switch | Thursday, August 10, 2017 7:08 PM | Thursday, August 10, 2017 7:12 PM | John Rivenburgh |
| Huawei I | Domestic - Interstate | Least Cost Routing | Preliminary data generated and ready to send to switch | Tuesday, August 8, 2017 1:18 PM | Tuesday, August 8, 2017 1:22 PM | John Rivenburgh |
| Huawei I | Domestic - Intrastate | Benchmark Routing | Preliminary data generated and ready to send to switch | Tuesday, August 8, 2017 4:51 AM | Tuesday, August 8, 2017 4:53 AM | John Rivenburgh |
| Huawei II | Wholesale | Benchmark Routing | Preliminary data generated and ready to send to switch | Wednesday, May 17, 2017 3:10 PM | Wednesday, May 17, 2017 3:14 PM | John Rivenburgh |

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Orca Wave

Current and Proposed Routing: The Intelligent LCR displays: Destination Code, Destination Name, Active Routing (up to 8 routes deep) with Carrier, Cost p/MOU, percent allocations, Proposed Routing and the lowest quoted Customer Rate by destination. Routing color coding notes to user the routing rules associated with routing creation, and also identifies the user and date.

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Intelligent LCR | Modify Routing

Current Routing **Modify Routing**

Search Parameters

Search By: Parent Country ▼

Parent Country: Australia ▼

Switch-Partition: Huawei II - Retail ▼

Submit

Export

Routing last run: Aug 10 2017 7:12PM (GMT -00:00)

| Destination Code | Destination Name | Active Routing | Proposed Routing | LQCR | Commands |
|------------------|----------------------------|---|--|----------------------------|--|
| 6187 | AUSTRALIA ADELAIDE | Exception Routing (1) OST-0.008-50% (2) TI WS-0.01-30% (3) PHNTM-0.0101-10% (4) TI HQ-0.0105-10% Modification Effective: 6/20/2016 [Gravin Tan entered on: 6/20/2016] View Customers Affected | | Call Center Traffic 0.0196 | Modify Remove |
| 6187 | AUSTRALIA ADELAIDE | LCR Routing (1) OST-0.008 (2) TI WS-0.01 (3) PHNTM-0.0101 (4) TI HQ-0.0105 (5) VODA-0.0111 (6) Vtalk-0.0115 (7) AMC-0.013 (8) Pinyi-0.0142 | Benchmark Routing (1) Pinyi-0.0142 (2) Nobel-0.0165 (3) OST-0.008 (4) TI HQ-0.0105 (5) Vtalk-0.0115 (6) AMC-0.013 (7) SmCOM-0.024 (8) TI WS-0.01 | Call Center Traffic 0.0196 | Modify |
| 61881 | AUSTRALIA ADELAIDE | (1) OST-0.008 (2) Vtalk-0.009 (3) VODA-0.0098 (4) TI WS-0.01 (5) PHNTM-0.0101 (6) TI HQ-0.0105 | (1) SMG-0.3 (2) AMC-0.013 (3) Nobel-0.014 (4) PHNTM-0.0101 (5) SmCOM-0.024 (6) OST-0.008 | Call Center Traffic 0.0196 | Modify |
| 61407 | AUSTRALIA MOBILE - TELSTRA | (1) SmCOM-0.0235 (2) VODA-0.0259 (3) OST-0.0315 (4) Voip-0.033 (5) AMC-0.0375 (6) Pinyi-0.0416 (7) Vtalk-0.0455 (8) TI HQ-0.0605 | (1) SmCOM-0.0235 (2) PHNTM-0.0859 (3) VODA-0.0259 (4) OST-0.0315 (5) Voip-0.033 (6) Vtalk-0.0455 (7) TI HQ-0.0605 (8) TI WS-0.0615 | Call Center Traffic 0.041 | Modify |
| 61408 | AUSTRALIA MOBILE - TELSTRA | (1) SmCOM-0.0235 (2) VODA-0.0259 (3) OST-0.0315 (4) Voip-0.033 (5) AMC-0.0375 (6) Pinyi-0.0416 (7) Vtalk-0.0455 (8) TI HQ-0.0605 | Profit Protection Routing with Blocked Vendors (1) SmCOM-0.0235 (2) VODA-0.0259 (3) OST-0.0315 (4) Voip-0.033 (5) AMC-0.0375 (6) Pinyi-0.0416 (7) Vtalk-0.0455 (8) TI HQ-0.0605 | Call Center Traffic 0.041 | Modify |
| 61409 | AUSTRALIA MOBILE - TELSTRA | (1) SmCOM-0.0235 (2) VODA-0.0259 (3) OST-0.0315 (4) Voip-0.033 (5) AMC-0.0375 (6) Pinyi-0.0416 (7) Vtalk-0.0455 (8) TI HQ-0.0605 | (1) TI WS-0.0615 (2) VODA-0.0259 (3) AMC-0.0375 (4) OST-0.0315 (5) PHNTM-0.0859 (6) Nobel-0.0835 (7) Voip-0.033 (8) Vtalk-0.0455 | Call Center Traffic 0.041 | Modify |

1 2 3

Red - Exceptions
 Green - Default
 Blue - Peak
 Light Blue - Benchmark
 Orange - Active LQCR
 Yellow - Proposed LQCR
 Routing Color Key

The Lowest Quoted Customer Rate (LQCR) information may be missing or incomplete while routing is being generated.

*** All Route Costs are in US Dollar USD ***

Modify Routing: Allows user to override BlueWater proposed routing or current routing at the Parent Country, Destination Group or Destination Code level. A user goes through the modify routing 'wizard' to insert their changes. User can decide upon Exception Routing – in which they are going to build all of the routing for a destination or Default Routing (that is linked to Bilateral/swaps, for inserting carriers in 1st or more, and then having BlueWater determine the overflow carriers beyond the default carrier(s) This is where dates, percent, all or customer

specific routing, etc. is established. This is best reviewed during an online demo with the customer, so that all features can be reviewed and discussed.

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Intelligent LCR | Modify Routing

Current Routing **Modify Routing**

Would you like to add a new modification to the routing, or remove or end date an existing modification?

☒ Add New Modification

☐ Remove or End Date Existing Modification

Next >>

View Lowest Quoted Rates: Depicts those customers <View LQCR> that are creating the possible negative margin situation (noted in Orange color highlights). Also hourly alarms are generated by the BlueWater software should the negative margin actually occur. User can truncate routing during 'Send to Switch' so as to block the negative margin possibility or send out new Customer Rate addendums.

Parent Country: All Countries

Routing last run: Dec 17 2011

1 2 3 4

Destination Code

1242

973

9733

9738

9739

BAHRAIN-MOBILE 9738

| Customer Name | Contract Status | Switch | Current Rate | Current Rate Start Date | Pending Rate | Pending Rate Start Date |
|--|-----------------|--------|--------------|-------------------------|--------------|-------------------------|
| AT&T | Active | Sonus | 0.0332 | 3/4/2011 | | |
| Qwest Telecom | Active | Sonus | 0.0332 | 5/12/2011 | | |
| SwissCom Networks | Active | Sonus | 0.0332 | 7/20/2011 | | |
| Tata Communications (Formerly Teleglobe) | Active | Sonus | 0.0332 | 6/6/2011 | | |

Export to TDF

100%

9738

BAHRAIN-MOBILE

(1) TATEC-0.0279
(2) ATTEC-0.0353
(3) QSTEC-0.0369
(4) SWIEC-0.0373

View LQCR

Modify

9739

BAHRAIN-MOBILE

(1) SWIEC-0.0298
(2) QSTEC-0.0312
(3) IDTEC-0.0316
(4) TATEC-0.0330

AT&T 0.0332

Modify

Benchmarks for intelligent routing can be set up by destination and Routing Partition or by default for all routes:

Intelligent LCR | Routing Benchmark Setup

Options

Search by: Parent Country

Parent Country: AUSTRALIA PROPER(61)

Switch Partition: Huawei II - Retail

Get Benchmarks

Defaults

Default ASR: 35

Default Average Duration: 150

Default Floor Cost: 0.025

Apply to All

Save Page

Export to Excel

| Destination Name | Destination Code | ASR | Average Duration (in seconds) | Floor Cost | Update |
|------------------------------|------------------|---------|-------------------------------|------------|--------|
| AUSTRALIA ADELAIDE | 6187 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA ADELAIDE | 61881 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA ADELAIDE | 61882 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA ADELAIDE | 61883 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA ADELAIDE | 61884 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA BRISBANE | 6173 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA CANBERRA | 61261 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA CANBERRA | 61262 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA MELBOURNE | 6138 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA MELBOURNE | 6139 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA MOBILE - HUTCHISON | 61425 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA MOBILE - HUTCHISON | 61430 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA MOBILE - HUTCHISON | 61433 | 35.0000 | 150 | 0.0250 | Update |
| AUSTRALIA MOBILE - OPTUS | 61401 | 35.0000 | 150 | 0.0250 | Update |

Benchmark set up for all destinations:

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Application Mgmt. | Update Routing Profile

☒ Route by Destination Code? (Default is by Destination Code Group)

Send to Switch Email CC:
john@orcawave.net

Default Maximum Cost:
1.0000

Benchmark Settings

Benchmark Default = ASR * Average Duration * Minimum Calls Required

Default ASR:
25

Default Average Duration (in seconds):
180

Minimum Calls Required:
500

Your Current Benchmark Default is $25 * 180 * 500 = 2,250,000$.

Update Profile Reset

Send to Switch by User: Once initiated, the new routing scripts file is FTP / error checked into the switching platform with notifications back to the user upon successful completion of new routing. In all cases the user is logged, copy goes to NOC and change routing and the scripts is produced.

Please note that there are many additional elements to the Intelligent Routing, such as:

- customer specific routing,
- SIP Redirect routing, so as to keep a restrictive switching platform that has destination code breakout limits and leverage Orca Wave's SIP Redirect platform for optimum profit,
- multiple switch platform routing,

and other BlueWater customer specific attributes, that are best reviewed online with Orca Wave.

BlueWater Reports Overview:

Orca Wave provides the user with a wide range of user pulled reports, as well as a wealth of emailed pushed reports. There are reports designed for the senior management team, the analysts, AP/AR, sales/buyers, NOC and the engineers. Besides the examples notes, Orca Wave has the ability via its auto email reporting function, to provide User specific reports to specific individuals / groups within User. User just needs to define the information needed and we can produce first a mock up, then move the new report to production.

In addition, Orca Wave has been moving extensively into data visualization with our Report Widgets for the NOC with Concurrent Calls and Short Cards that are immediately updated as new CDR files are processed – typically every 3 to 5 minutes

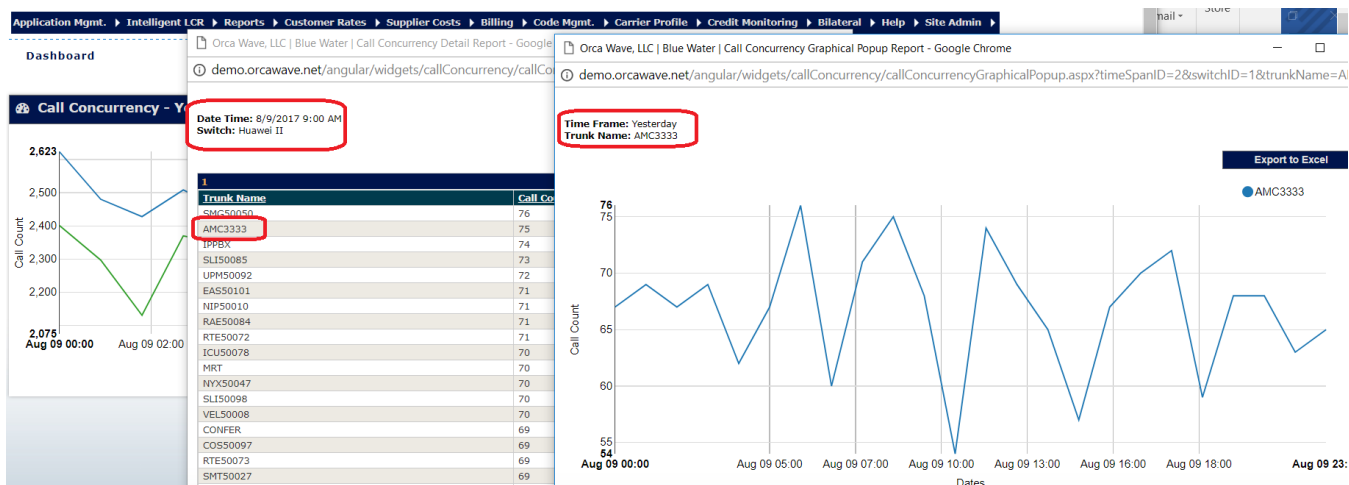
NOC Widgets

Crucial to the maintenance of customer high quality and network efficiencies, is the real time display of concurrent calls – both on an aggregated basis, as well as on a carrier / trunk group basis. Each User can set up their own real-time widgets, with a variety of different time settings and page layouts.

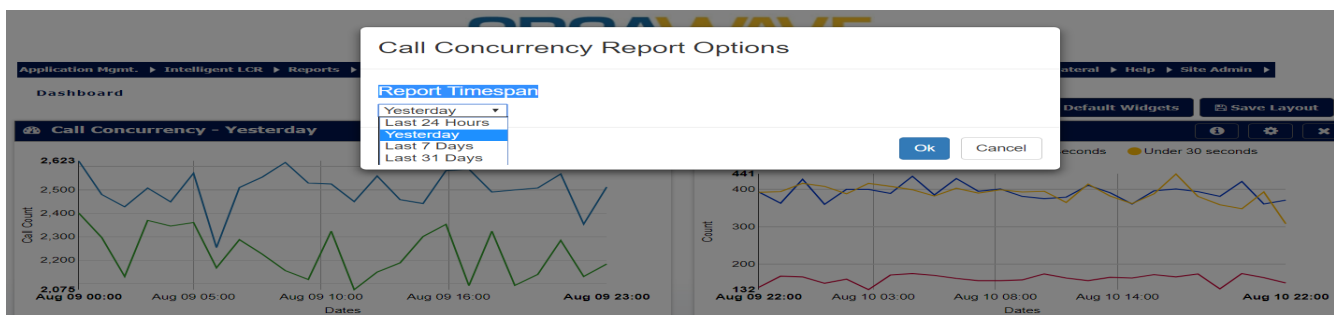
Call Concurrency Widget:



Quickly see Peak Trunk Groups & Individual TGs by <clicking> on Widget graph:

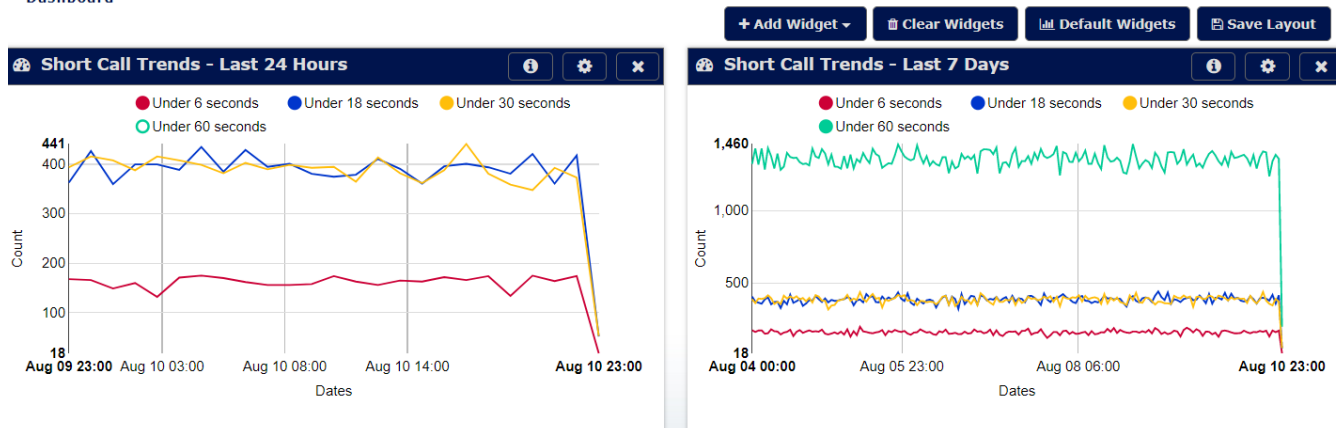


Different time frames and widget layouts can be chosen by the User and saved for subsequent views



Two Views of Short Call Trends - Time period & Length of Short Calls

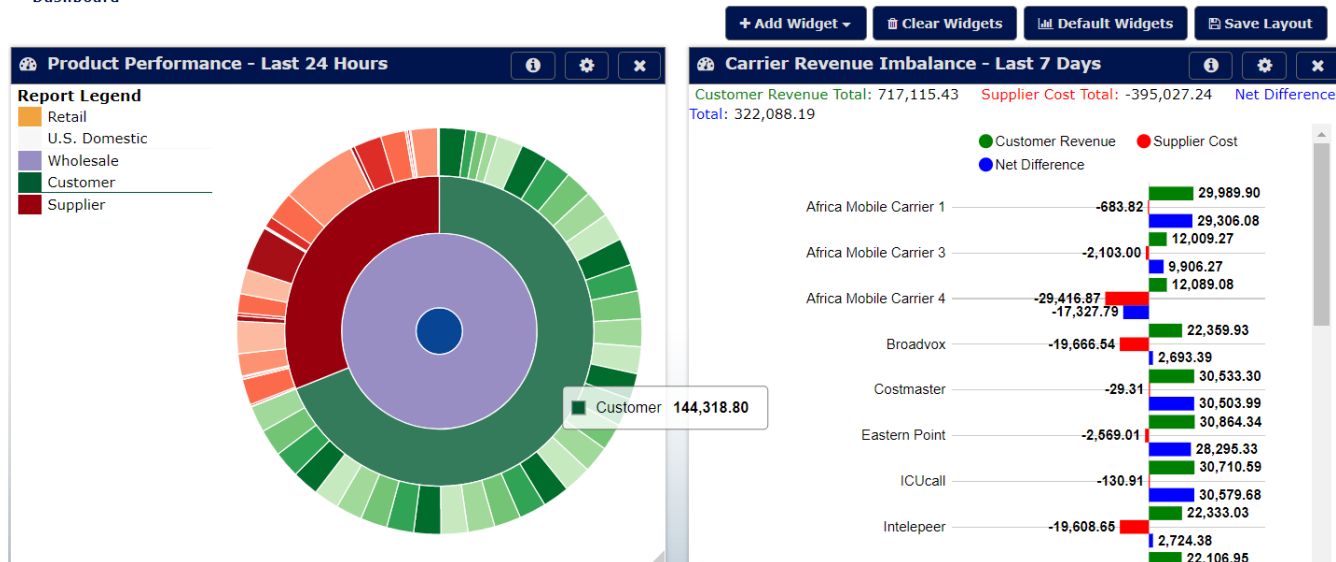
Dashboard



Revenue / Product Focused Widgets

BlueWater also provides instant visibility into the revenue state of the business with the Revenue Imbalance and Product Perform Widgets. Akin to the NOC widgets, Users can choose their preferred time frames and have multiple widget views showing and updating real time.

Dashboard



There is a wide array of user pulled reports that address senior team/finance/sales need for information, as well as detailed reports at CDR level, hourly analysis by destination code or dialled number for NOC techs. In addition all supplier costs, customer rates, rate addendums, invoices, destination codes, contract details, etc. are available throughout BlueWater and exportable. Below are some examples of high level and detailed reports. Also, there are reports with extensive financial data, as well as reports with operational data – that Company Admin can restrict from views by certain employees.

Financial Margin Report – Grouped by BlueWater customer/supplier defined Products Summary Reports, GRID and Graphical Reports

Application Mgmt. > Intelligent LCR > Reports > Customer Rates > Supplier Co

Reports | Financial Reports | M

Search Options

Report Type

Start Date / Hour:

Class of Service

Sort By:

Countries:

Operational Reports

Financial Reports

Graphical Reports

Notifications

Supp. Validation Report

CDR Viewer

Margin Report

Margin Report Grid

Target List Report

Print

Export

Margin Summary for Carriers by Destination Report: Customer Thursday, August 10, 2017 12:00 AM to Thursday, August 10, 2017 11:59 PM

Class of Service

Customer

Total

ASR

Avg PDD

Revenue

Cost

Provides financial and operational information such as margin, ASR, and average duration in an expandable format.

| | | | | | | | | |
|-------------------------------------|--------------|---------|---------|-------|-------|------|------------|-----------|
| Retail | 437,392.28 | 90,527 | 45,192 | 9.68 | 49.92 | 2.75 | 37,903.14 | 9,413.41 |
| Call Center Traffic | 68,304.51 | 18,195 | 9,092 | 7.51 | 49.97 | 2.76 | 5,136.43 | 1,560.93 |
| Conferencing | 224,344.17 | 18,107 | 8,982 | 24.98 | 49.61 | 2.73 | 18,375.14 | 4,480.50 |
| IPPBX SIP Traffic | 68,480.36 | 18,158 | 9,137 | 7.49 | 50.32 | 2.77 | 6,826.29 | 1,646.14 |
| Mobile Roaming Traffic | 67,515.24 | 18,075 | 9,033 | 7.47 | 49.98 | 2.76 | 6,721.11 | 1,525.05 |
| SMS Messaging | 8,948.00 | 17,992 | 8,948 | 1.00 | 49.73 | 2.73 | 844.17 | 200.79 |
| U.S. Interstate | 1,281,644.90 | 338,676 | 169,335 | 7.57 | 50.00 | 2.75 | 7,453.56 | 6,654.00 |
| U.S. Intrastate | 1,373,520.40 | 363,272 | 181,364 | 7.57 | 49.93 | 2.74 | 8,104.38 | 7,171.29 |
| Wholesale | 2,312,182.22 | 612,759 | 307,183 | 7.53 | 50.13 | 2.75 | 138,972.49 | 53,206.69 |
| Africa Mobile Carrier 1 | 67,974.19 | 18,021 | 8,979 | 7.57 | 49.83 | 2.74 | 4,241.52 | 1,599.38 |
| Africa Mobile Carrier 2 | 68,512.40 | 18,099 | 9,088 | 7.54 | 50.21 | 2.77 | 1,710.34 | 1,645.98 |
| Africa Mobile Carrier 3 | 68,422.52 | 18,013 | 9,061 | 7.55 | 50.30 | 2.75 | 1,706.26 | 1,552.13 |
| Africa Mobile Carrier 4 | 68,870.38 | 18,168 | 9,146 | 7.53 | 50.34 | 2.75 | 1,717.33 | 1,569.55 |
| Belgacom-ICS | 67,152.94 | 17,938 | 8,967 | 7.49 | 49.99 | 2.75 | 4,194.28 | 1,539.50 |
| AFGHANISTAN MOBILE - AWCC | 0.00 | 1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AFGHANISTAN MOBILE - MTN | 8.90 | 2 | 1 | 8.90 | 50.00 | 4.00 | 0.80 | 0.00 |
| AFGHANISTAN MOBILE - OTHER CARRIERS | 0.00 | 1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

The financial report includes: Total MOUs, Total Calls, Answered Calls, ALOC, ASR, Average PDD, Revenue, Cost, Margin, Revenue p/MOU, Cost p/MOU and Margin p/MOU. In the summary Margin report, there are 3 levels of data presented – By Class of Service, Carriers and Destinations – by the time frame chosen by the User.

The Margin Report GRID, has similar information categories, but shows Inbound/Outbound carriers by destination by switch in an onscreen sortable excel format. In addition, the data 'behind' each row of information will show destination codes traffic by hour.

Reports | Financial Reports | Margin Report Grid

Search Options

Results

Margin Summary by Carrier for Dual Carriers

Start Date / Hour: Friday, August 11, 2017 12:00 AM

End Date / Hour: Friday, August 11, 2017 11:59 PM

Carrier Type: Customer

Switch: All Switches

Class of Service: Wholesale

Export Report

Export Page

| Customer | Supplier | Destination | Total Minutes | Seizure | Answer | ALOC | ASR | Avg. PDD | Revenue | Cost | Margin | Margin % | Price/Min. Cost/Min. Margin/Min. |
|-------------------------------------|-------------------------------------|-------------------------------|---------------|---------|--------|-------|--------|----------|---------|--------|--------|----------|----------------------------------|
| Full Report Totals: | | | 7,817.26 | 2,133 | 1,035 | 7.55 | 48.52 | 721.45 | 229.78 | 491.67 | 68.15% | | |
| Page Totals: | | | 2,096.81 | 274 | 216 | 9.71 | 78.83 | 4.29 | 188.60 | 64.28 | 124.32 | 65.92% | |
| Slimtel RETAIL - Wholesale | TeleCrest - Wholesale | BOSNIA AND HERZEGOVINA SRPSKA | 37.87 | 4 | 4 | 9.47 | 100.00 | 5.75 | 3.51 | 0.00 | 3.51 | 100.00% | 0.0927 0.0000 0.0927 |
| SmartComTech - Wholesale | PinYinCom - Wholesale | BOSNIA AND HERZEGOVINA SRPSKA | 33.53 | 5 | 5 | 6.71 | 100.00 | 3.00 | 3.11 | 3.49 | -0.38 | -12.21% | 0.0928 0.1041 -0.0113 |
| Belgacom-ICS - Wholesale | ICS - Wholesale | BOSNIA AND HERZEGOVINA SRPSKA | 31.37 | 3 | 3 | 10.46 | 100.00 | 5.33 | 2.85 | 0.00 | 2.85 | 100.00% | 0.0909 0.0000 0.0909 |
| Africa Mobile Carrier 1 - Wholesale | Tata - Wholesale | BOSNIA AND HERZEGOVINA SRPSKA | 30.57 | 5 | 3 | 10.19 | 60.00 | 4.60 | 2.70 | 0.00 | 2.70 | 100.00% | 0.0883 0.0000 0.0883 |
| Wavecrest - Wholesale | Slimtel Wholesale - Wholesale | BOSNIA AND HERZEGOVINA SRPSKA | 30.23 | 4 | 3 | 10.08 | 75.00 | 6.25 | 2.73 | 0.00 | 2.73 | 100.00% | 0.0903 0.0000 0.0903 |
| Latino Communications - Wholesale | Africa Mobile Carrier 3 - Wholesale | BOSNIA AND HERZEGOVINA SRPSKA | 29.18 | 4 | 4 | 7.30 | 100.00 | 6.50 | 2.76 | 0.00 | 2.76 | 100.00% | 0.0946 0.0000 0.0946 |
| Nobel - Wholesale | ICUcall - Wholesale | BOSNIA AND HERZEGOVINA SRPSKA | 28.33 | 2 | 2 | 14.17 | 100.00 | 2.50 | 2.63 | 0.00 | 2.63 | 100.00% | 0.0928 0.0000 0.0928 |
| | | | | | | | | | | | | | 0.0988 |

<Clicking> on any GRID data row, shows the User the calls by destination routing code by hour. Should the User want to pull the CDRs, they would go to CDR Viewer (see below 4.3.4).

demo.orcawave.net/reports/popup/gridDetailView.aspx?reportType=FINSCAD&switchID=0&classOfServiceID=1&destinationGroupID=2319&customerID=...

Margin Summary by Carrier for Dual Carriers
Start Date: Friday, August 11, 2017 12:00 AM
End Date: Friday, August 11, 2017 11:59 PM
Customer: Nobel - Wholesale
Supplier: SmartComTech - Wholesale
Destination: BOLIVIA SANTA CRUZ

Export Report

Export Page

| Destination | Call Date | Total Minutes | Seizure | Answer | ALOC | ASR | Avg. PDD | Revenue | Cost | Margin | Margin % | Price/Min. |
|---------------------|------------------|---------------|---------|--------|-------|--------|----------|---------|------|--------|----------|------------|
| Full Report Totals: | | 48.81 | 7 | 4 | 12.20 | 57.14 | 2.43 | 3.61 | 2.79 | 0.82 | 22.71% | 0.0000 |
| Page Totals: | | 48.81 | 7 | 4 | 12.20 | 57.14 | 2.43 | 3.61 | 2.79 | 0.82 | 22.71% | 0.0000 |
| 5913921 | 2017-08-11 06:00 | 0.00 | 1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% | 0.0000 |
| 59133767 | 2017-08-11 12:00 | 11.80 | 1 | 1 | 11.80 | 100.00 | 4.00 | 0.87 | 0.68 | 0.19 | 21.83% | 0.0737 |
| 59133820 | 2017-08-11 00:00 | 0.00 | 1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% | 0.0000 |
| 59139304 | 2017-08-11 12:00 | 14.28 | 1 | 1 | 14.28 | 100.00 | 3.00 | 1.06 | 0.82 | 0.24 | 22.64% | 0.0742 |
| 591338236 | 2017-08-11 06:00 | 12.98 | 1 | 1 | 12.98 | 100.00 | 8.00 | 0.96 | 0.73 | 0.23 | 23.95% | 0.0562 |
| 591338522 | 2017-08-11 04:00 | 9.75 | 1 | 1 | 9.75 | 100.00 | 2.00 | 0.72 | 0.56 | 0.16 | 22.22% | 0.0738 |
| 591338535 | 2017-08-11 12:00 | 0.00 | 1 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00% | 0.0000 |

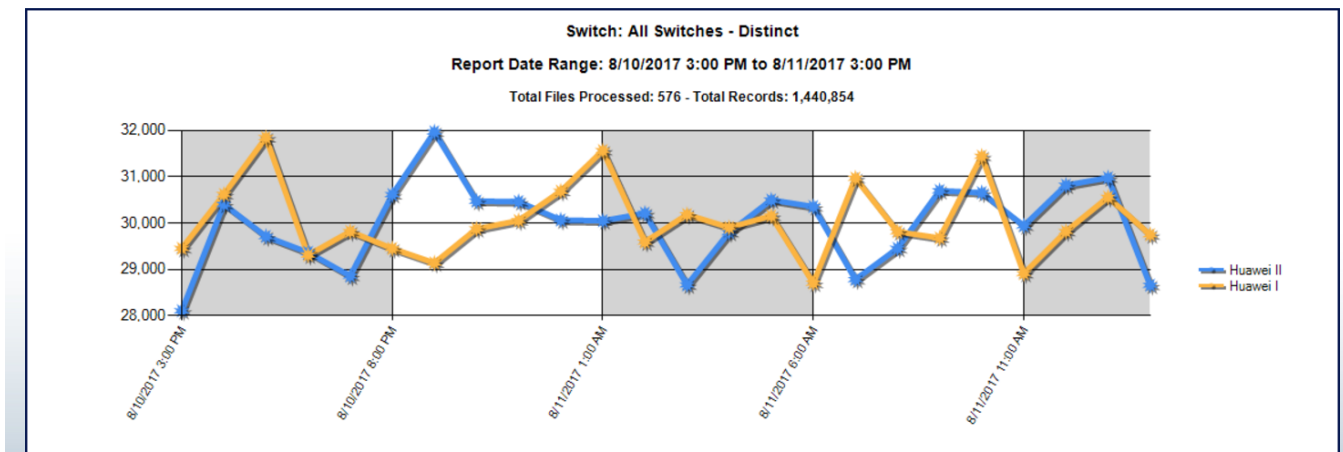
Graphical Reports: CDR Trending Analysis & CDR Trends Report

BlueWater tracks both the CDR files / CDRs records processed by switch and on an aggregated basis in the CDR Trending Analysis. In addition, BlueWater has stringent CDR Audit alerts and alarms associated with the CDR importing processes that populate reports and billing.

[Reports](#) | [Graphical Reports](#) | CDR Trending Analysis

Switch: [All Switches - Cumulative](#) [All Switches - Distinct](#) [Huawei I](#) [Huawei II](#)

Report Time Frame: [Last 24 Hours](#) [Last 7 Days](#) [Last 30 Days](#) [Last 12 Months](#)



In addition, the BlueWater graphical reports have a 31day trending analysis by country, by customer, by supplier, by MOUs, by revenue, by cost and margin.

Search Options

Report Display:
Parent Country

Report Type:
View Minutes

Calendar Start Day of Week:
Sunday

Get Report

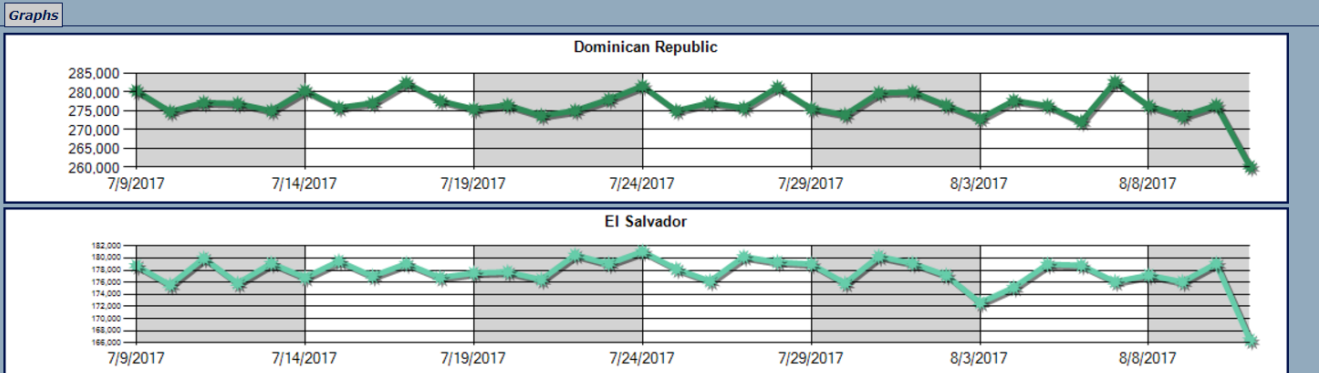
Parent Country:
Afghanistan
Albania
Algeria
American Samoa
Andorra
Angola
Anguilla
Antigua and Barbuda
Argentina
(Default - top 5 Parent Countries - select a maximum of 5)
☐ Clear selected Parent Countries

Results

LEGEND
Dominican Republic
El Salvador
Guatemala
Russia
United States

Export to Excel

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 7/9/2017 | 7/10/2017 | 7/11/2017 | 7/12/2017 | 7/13/2017 | 7/14/2017 | 7/15/2017 |
| 280,336.20 | 274,739.00 | 277,175.50 | 276,908.05 | 274,968.55 | 280,344.77 | 275,789.50 |
| 178,755.50 | 175,562.62 | 179,977.80 | 175,821.28 | 179,133.63 | 176,792.17 | 179,496.60 |
| 349,496.05 | 345,842.52 | 349,052.48 | 350,585.30 | 348,445.63 | 345,451.45 | 353,698.92 |
| 188,408.35 | 186,460.68 | 189,127.73 | 188,868.28 | 186,915.62 | 187,574.15 | 186,768.72 |
| 2,707,122.90 | 2,736,695.20 | 2,692,135.50 | 2,717,722.00 | 2,713,760.60 | 2,716,086.00 | 2,715,067.80 |
| 7/16/2017 | 7/17/2017 | 7/18/2017 | 7/19/2017 | 7/20/2017 | 7/21/2017 | 7/22/2017 |
| 277,047.95 | 282,418.37 | 277,632.73 | 275,447.82 | 276,482.73 | 273,680.03 | 275,017.30 |
| 177,001.83 | 179,085.70 | 176,794.00 | 177,525.83 | 177,704.18 | 176,447.32 | 180,508.18 |
| 349,339.90 | 353,648.87 | 351,294.73 | 347,529.35 | 352,154.80 | 346,582.00 | 347,009.68 |
| 188,710.33 | 189,700.73 | 187,975.37 | 188,552.00 | 187,967.77 | 188,064.42 | 189,191.15 |
| 2,703,059.60 | 2,709,215.90 | 2,702,842.00 | 2,706,708.20 | 2,732,025.70 | 2,712,119.40 | 2,731,067.00 |
| 7/23/2017 | 7/24/2017 | 7/25/2017 | 7/26/2017 | 7/27/2017 | 7/28/2017 | 7/29/2017 |
| 278,035.00 | 281,582.43 | 274,975.67 | 277,114.07 | 275,711.47 | 281,231.38 | 275,569.13 |
| 179,058.55 | 181,086.42 | 178,209.92 | 176,189.55 | 180,216.88 | 179,334.88 | 179,020.28 |
| 350,155.13 | 354,866.70 | 349,398.90 | 349,688.70 | 351,958.78 | 350,322.00 | 349,429.08 |
| 187,478.03 | 190,855.48 | 186,579.45 | 187,928.83 | 188,381.17 | 192,356.75 | 188,014.87 |
| 2,685,208.20 | 2,725,247.20 | 2,737,481.70 | 2,751,916.00 | 2,710,531.10 | 2,731,728.10 | 2,737,127.50 |
| 7/30/2017 | 7/31/2017 | 8/1/2017 | 8/2/2017 | 8/3/2017 | 8/4/2017 | 8/5/2017 |
| 273,909.45 | 279,710.70 | 280,016.58 | 276,419.47 | 272,886.32 | 277,689.57 | 276,331.73 |
| 175,837.17 | 180,265.38 | 179,137.45 | 177,159.87 | 172,637.65 | 175,145.50 | 178,988.10 |
| 352,287.67 | 352,467.23 | 350,747.77 | 350,358.67 | 346,535.82 | 348,708.45 | 349,138.33 |
| 191,126.17 | 192,531.87 | 190,066.08 | 189,336.80 | 185,619.80 | 186,908.70 | 189,504.92 |
| 2,728,624.70 | 2,714,239.20 | 2,697,476.70 | 2,713,976.70 | 2,709,042.70 | 2,718,744.20 | 2,715,668.40 |
| 8/6/2017 | 8/7/2017 | 8/8/2017 | 8/9/2017 | 8/10/2017 | 8/11/2017 | |
| 272,061.22 | 282,704.58 | 276,299.23 | 273,479.03 | 276,453.30 | 260,092.02 | |
| 178,808.75 | 176,089.52 | 177,182.98 | 176,069.47 | 179,096.85 | 166,481.37 | |
| 346,928.48 | 348,976.17 | 347,193.67 | 343,787.00 | 349,840.22 | 325,342.63 | |
| 187,959.22 | 187,364.13 | 187,970.10 | 186,344.25 | 187,931.82 | 172,688.30 | |
| 2,682,070.30 | 2,724,495.30 | 2,741,964.80 | 2,718,616.50 | 2,722,117.70 | 2,534,856.30 | |



In all cases, BlueWater reports are exportable to excel for the User.

CDR Viewer

CDR Viewer is designed as a trouble reporting tool to quickly obtain the underlying CDRs by customer, by supplier, by destination (code) by calling number, by called number, by treatment code, Trunk group / IP, etc.

Below is the CDR Viewer for the Bosnia - 591 CDRs:

Reports | CDR Viewer

Search Options Results

Start Date / Hour:

8/11/2017 00:00 ▼

End Date / Hour:

8/11/2017 23:59 ▼

Switch:

All Switches ▼

Results GMT Offset:

+00:00 ▼

Treatment Code:

Optional.

Completion Code:

Optional.

Billable Filter:

All CDRs ▼

Country Options

☐ View Unidentified Countries Only?

Countries (filters on Called Number only):

Benin
Bermuda
Bhutan
Bolivia
Bosnia and Herzegovina
Botswana
Brazil

(Default - all Countries - select a maximum of 20)

☐ Clear selected Countries

The Called Number and Calling Number fields will look up any number that starts with the number input.

Called Number:

Optional.

Calling Number:

Optional.

Carrier Options

☐ View Unidentified Carriers Only?

Customers:

Africa Mobile Carrier 1
Africa Mobile Carrier 2
Africa Mobile Carrier 3
Africa Mobile Carrier 4
B&C IT LTD
Belgacom-ICS
Broadvox

(Default - all Customers - select a maximum of 20)

☐ Clear selected Customers

Suppliers:

Africa Mobile Carrier 1
Africa Mobile Carrier 2
Africa Mobile Carrier 3
Africa Mobile Carrier 4
Axistel
B&C IT LTD
B2Go

(Default - all Suppliers - select a maximum of 20)

☐ Clear selected Suppliers

The Incoming Identifier and Outgoing Identifier fields will look up any Trunk Group that matches the text entered. It can be at the start, end or in the middle of the Trunk Group.

Incoming Identifier:

Optional.

Outgoing Identifier:

Optional.

Get CDRs

Clear Form

CDR Viewer results are below. When a User exports the file, then the 100+ CDR data fields are available.

Reports | CDR Viewer

Search Options Results

2,639 total record(s) were found.
Only the first 1,000 records are displayed below.
Please Export to Excel for all records that meet this criteria.

Export to Excel

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | ... | |
|-------------------------------------|---------------|----------------|----------------------|----------------------|----------------------------|-------------------------|---------------------|-------------------|---------------------|----------------|-----------------|
| Destination Routed To | Called Number | Calling Number | Origination Time | Termination Time | Real Duration (in seconds) | Customer Name | Customer Identifier | Supplier Name | Supplier Identifier | Treatment Code | Completion Code |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876100000000 | 4796657777777 | 8/11/2017 2:29:23 PM | 8/11/2017 2:36:54 PM | 451 | Costmaster | COS50097 | Voipplanet | VOIS0026 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876100000000 | 5912221111111 | 8/11/2017 7:03:06 AM | 8/11/2017 7:03:06 AM | 0 | Tata | RTE50073 | Telecom Italia HQ | TIH50068 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876111111111 | 13237681111 | 8/11/2017 8:32:29 AM | 8/11/2017 8:33:28 AM | 59 | Costmaster | COS50097 | RateMax | RAT50050 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876122222222 | 14067253333 | 8/11/2017 1:25:22 AM | 8/11/2017 1:40:23 AM | 901 | Zolatel | ZOL50102 | VOIPLANET CLI | VPC50025 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876122222222 | 17132314444 | 8/11/2017 6:08:03 AM | 8/11/2017 6:22:46 AM | 883 | Zolatel | ZOL50102 | UPM | UPM50093 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876122222222 | 18454761111 | 8/11/2017 6:36:03 AM | 8/11/2017 6:49:46 AM | 823 | Africa Mobile Carrier 4 | AMC50044 | VTS | VTS50079 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876133333333 | 12158002222 | 8/11/2017 4:23:22 AM | 8/11/2017 4:29:10 AM | 348 | Latino Communications | LAT50065 | Flamenco | FLA50033 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876133333333 | 13038669999 | 8/11/2017 4:43:26 PM | 8/11/2017 4:43:26 PM | 0 | R-Tel Global | RTE50072 | IMC | IMC50034 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876133333333 | 15089906666 | 8/11/2017 9:19:24 AM | 8/11/2017 9:23:55 AM | 271 | ICUcall | ICU50078 | ICUcall | ICU50080 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876133333333 | 17242312222 | 8/11/2017 3:00:18 AM | 8/11/2017 3:06:31 AM | 373 | Uno Communications | UNO50052 | NEXTRAC | NEX50051 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876133333333 | 18328002222 | 8/11/2017 5:54:57 AM | 8/11/2017 6:08:17 AM | 800 | Raeed | RAE50084 | VOIPLANET CLI | VPC50025 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876144444444 | 13123729999 | 8/11/2017 2:53:04 AM | 8/11/2017 2:53:04 AM | 0 | Velosolutions | VEL50008 | Ricochet | RIC50041 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876144444444 | 14232481111 | 8/11/2017 2:44:14 PM | 8/11/2017 2:44:14 PM | 0 | SMG Global | SMG50050 | ICS DR | ICS50058 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876144444444 | 15175968888 | 8/11/2017 6:13:25 AM | 8/11/2017 6:13:25 AM | 0 | OneTel | ONE50014 | Telecom Italia HQ | TIH50068 | | |
| BOSNIA AND HERZEGOVINA MOBILE - BIH | 3876144444444 | 15175968888 | 8/11/2017 6:13:25 AM | 8/11/2017 6:13:25 AM | 0 | OneTel | ONE50014 | Telecom Italia HQ | TIH50068 | | |

Supplier Validation Report

The Supplier Validation Report is specifically designed for the Accounts Payable team to quickly determine if a Supplier invoice should be paid or disputed. By uniquely storing in individual supplier data tables, the key information of Supplier time zone, destination naming convention, cost, effective date and currency, so as to present to AP, a summary and detail accounting of what is owed to a supplier. Should the amounts not match the supplier invoice, then the Supplier Validation file is exported and a dispute can be initiated. Below is the results for TATA for 1 week billing from July 31 – August 6, 2017. In addition, if Supplier CDRs are available, then the Orca Wave Platinum Support service will perform a CDR mapping review for dispute management. The exported file has the data presented by each day and with destination breakouts from the supplier.

Application Mgmt. | Intelligent LCR | Reports | Customer Rates | Supplier Costs | Billing | Code Mgmt. | Carrier Profile | Credit Monitoring | Bilateral | Help | Site Admin

Reports | Supp. Validation Report

Options Results

Export to Excel

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--------------------------------|-------------|-----------|-----------------|-----------|---------------|------------|---------------|----------------|----------|----|
| Destination | Parent Code | Switch | Completed Calls | Cost/Min. | Total Minutes | Total Cost | Exchange Rate | Total Exchange | Currency | |
| Grand Totals: | | | 3,916 | | 30,577.4 | 3,726.66 | | 3,726.66 | | |
| Algeria - Algiers | 213 | Huawei II | 6 | 1 | 48.8 | 48.81 | 1.00 | 48.81 | USD | |
| Algeria - Fixed | 213 | Huawei II | 4 | 1 | 23.2 | 23.15 | 1.00 | 23.15 | USD | |
| Algeria - Mobile Orascom | 213 | Huawei II | 6 | 0.27 | 44.6 | 12.06 | 1.00 | 12.06 | USD | |
| Algeria - Mobile Other | 213 | Huawei II | 13 | 0.27 | 93.6 | 25.29 | 1.00 | 25.29 | USD | |
| Algeria - Mobile Wataniya | 213 | Huawei II | 2 | 0.35 | 8.3 | 2.89 | 1.00 | 2.89 | USD | |
| Algeria - Proper | 213 | Huawei II | 2 | 1 | 24.0 | 23.98 | 1.00 | 23.98 | USD | |
| Angola - Mobile Movitel | 244 | Huawei II | 7 | 0.054 | 47.6 | 2.56 | 1.00 | 2.56 | USD | |
| Angola - Mobile Unitel | 244 | Huawei II | 10 | 0.054 | 66.1 | 3.57 | 1.00 | 3.57 | USD | |
| Angola - Proper | 244 | Huawei II | 5 | 0.054 | 37.4 | 2.02 | 1.00 | 2.02 | USD | |
| Bangladesh - Dhaka | 880 | Huawei II | 1 | 0.019 | 0.9 | 0.02 | 1.00 | 0.02 | USD | |
| Bangladesh - Mobile Banglalink | 880 | Huawei II | 6 | 0.019 | 34.4 | 0.65 | 1.00 | 0.65 | USD | |
| Bangladesh - Mobile Citycell | 880 | Huawei II | 2 | 0.019 | 12.2 | 0.23 | 1.00 | 0.23 | USD | |
| Bangladesh - Mobile Grameen | 880 | Huawei II | 6 | 0.019 | 58.6 | 1.11 | 1.00 | 1.11 | USD | |
| Bangladesh - Mobile Robi | 880 | Huawei II | 4 | 0.019 | 41.2 | 0.77 | 1.00 | 0.77 | USD | |
| Bangladesh - Mobile Teletalk | 880 | Huawei II | 2 | 0.019 | 20.2 | 0.39 | 1.00 | 0.39 | USD | |
| Bangladesh - Mobile Warid | 880 | Huawei II | 1 | 0.019 | 9.8 | 0.19 | 1.00 | 0.19 | USD | |
| Bangladesh - Proper | 880 | Huawei II | 6 | 0.019 | 53.9 | 1.02 | 1.00 | 1.02 | USD | |
| Bangladesh - Sylhet | 880 | Huawei II | 2 | 0.019 | 39.9 | 0.76 | 1.00 | 0.76 | USD | |
| Benin - Mobile MTN | 229 | Huawei II | 4 | 0.178 | 21.8 | 3.87 | 1.00 | 3.87 | USD | |
| Benin - Mobile Other | 229 | Huawei II | 24 | 0.178 | 131.6 | 23.42 | 1.00 | 23.42 | USD | |
| Benin - Proper | 229 | Huawei II | 12 | 0.178 | 72.6 | 12.93 | 1.00 | 12.93 | USD | |
| Cameroon - Mobile MTN | 237 | Huawei II | 2 | 0.2286 | 12.8 | 2.92 | 1.00 | 2.92 | USD | |
| Cameroon - Mobile Orange | 237 | Huawei II | 6 | 0.191 | 43.9 | 8.38 | 1.00 | 8.38 | USD | |

Target List Report

BlueWater Target List report is designed for Carrier Relations / buyers to quickly provide: “Here is the routing cost & ASR I need, as well as how much traffic we have”

[Reports](#) | [Financial Reports](#) | [Target List Report](#)

Options

Switch-Partition: Huawei II - Wholesale User can choose which Route Partition vendor can bid upon

% < 1st Route: 0 User can choose what % below 1st Route cost is presented to vendor

Start Date: 8/11/2017 User chooses the date Range for traffic stats **End Date:** 8/11/2017 Range for traffic stats **Submit**

User can export complete file or just certain destinations.

[Export to Excel](#)

| < A B C D E F G H I J K L M N O P Q R S T U V W X Y Z > ALL | | | | | | |
|---|------------------|--------------------------------|------------------------|-------------------------|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Destination Name | Destination Code | ASR Benchmark (Selected Range) | Target (% > 1st Route) | Volume (Selected Range) | | |
| AFGHANISTAN HERAT | 9340 | 48.00 % | 0.0984 | 90.35 | | |
| AFGHANISTAN JALALABAD | 9360 | 46.00 % | 0.0984 | 118.80 | | |
| AFGHANISTAN KABUL | 9320 | 46.00 % | 0.0984 | 132.47 | | |
| AFGHANISTAN KANDAHAR | 9330 | 45.00 % | 0.0984 | 126.27 | | |
| AFGHANISTAN MAZAR-E-SHARIF | 9350 | 42.00 % | 0.0984 | 74.20 | | |
| AFGHANISTAN MOBILE - AWCC | 9370 | 39.00 % | 0.09 | 96.20 | | |
| AFGHANISTAN MOBILE - CDMA | 9375 | 42.00 % | 0.0984 | 93.72 | | |
| AFGHANISTAN MOBILE - MTN | 9376 | 50.00 % | 0.0848 | 118.85 | | |
| AFGHANISTAN MOBILE - MTN | 9377 | 63.00 % | 0.0848 | 168.45 | | |
| AFGHANISTAN MOBILE - OTHER CARRIERS | 9378 | 58.00 % | 0.1035 | 142.37 | | |
| AFGHANISTAN MOBILE - ROSHAN | 9379 | 64.00 % | 0.076 | 253.35 | | |
| AFGHANISTAN PROPER | 93 | 55.00 % | 0.0984 | 118.82 | | |
| ALBANIA MOBILE - AMC | 35568 | 57.00 % | 0.085 | 127.32 | | |
| ALBANIA MOBILE - EAGLE | 35567 | 55.00 % | 0.112 | 155.03 | | |
| ALBANIA MOBILE - PLUS | 35566 | 53.00 % | 0.1675 | 167.10 | | |
| ALBANIA MOBILE - VODAFONE | 35569 | 53.00 % | 0.0731 | 136.83 | | |
| ALBANIA PREMIUM SERVICES | 35561 | 55.00 % | 0.045 | 175.85 | | |

Additionally, Orca has auto generated reports that are emailed to users designated by our customer. The auto reports cover:

- country & margin reports- daily/weekly,
- customer comparison reports every 8 hours,
- Customer trending for month,
- negative margin,
- fraud alerts,
- QoS alarms, and
- specialized reports requested by our customers that are part of our normal support.

Many of these reports are managed via the Notifications sub-module.

[Reports](#) | [Notifications](#) | [Manage Notifications](#)

Current Notifications [Add/Update Notifications](#)

Admin Filters

Business: Orca Wave Demo Partial listing of the 80+ Reports/Alerts that are available ☒ Show only enabled Notifications?

[Export to Excel](#)

| Notification ID | Business | Name | Last Send Time | Monthly? | Frequency Days | Frequency Hours | Frequency Minutes | Enabled? | Avg Seconds to Get Data | Edit | Test | Delete |
|-----------------|----------------|--|--------------------|----------|----------------|-----------------|-------------------|----------|-------------------------|------|------|--------|
| 863 | Orca Wave Demo | CDR Importer Failure Notice | 3/27/2015 3:38 AM | False | 0 | 1 | 0 | True | 0 | Edit | Test | Delete |
| 864 | Orca Wave Demo | Daily Traffic Report | | False | 1 | 0 | 0 | True | 0 | Edit | Test | Delete |
| 865 | Orca Wave Demo | Weekly Traffic Report | | False | 7 | 0 | 0 | True | 0 | Edit | Test | Delete |
| 866 | Orca Wave Demo | Deposit Alarm | | False | 1 | 0 | 0 | True | 0 | Edit | Test | Delete |
| 867 | Orca Wave Demo | Provisioning - Missing Data Alarm | 3/26/2015 9:48 AM | False | 1 | 0 | 0 | True | 0 | Edit | Test | Delete |
| 868 | Orca Wave Demo | Concurrent Call Report by Hour | | False | 1 | 0 | 0 | True | 0 | Edit | Test | Delete |
| 869 | Orca Wave Demo | Potential Supplier Trunk(s) Out of Service Alarm | | False | 1 | 0 | 0 | True | 0 | Edit | Test | Delete |
| 870 | Orca Wave Demo | Net Settlement Report | 3/26/2015 10:13 AM | False | 1 | 0 | 0 | True | 0 | Edit | Test | Delete |
| 871 | Orca Wave Demo | Daily Percent Usage | 3/26/2015 10:23 AM | False | 1 | 0 | 0 | True | 0 | Edit | Test | Delete |
| 872 | Orca Wave Demo | QoS Alarm | | False | 0 | 1 | 0 | True | 0 | Edit | Test | Delete |

Our experience with the senior management teams of Orca customers, is that BlueWater pushes daily, customized reports and then receive sufficient access and review to easily pull reports for more detailed

information. Below are 2 examples of a Daily report that is issued by BlueWater. The first is a Daily Country Margin Report that could easily be modified to breakout information based on the Product Groupings of our BlueWater customer. While the second report is an example we generate for the carrier relations teams to show comparison of traffic, ASRs and ALOC. Following these examples of pushed custom reports is an overview of BlueWater pulled reports:

Daily Report Example – (emailed daily, with Monday issuing a weekly summary also)

From: support@orcawave.net
To: pjoshi@orcawave.net; john@orcawave.net; jeri@orcawave.net
Cc:
Subject: Demo Daily Traffic Report

Sent: Tue 5/19/2



| Demo Daily Traffic Report | | | | | | | | | |
|---------------------------|---------------------|------------------|-----------------|---------------|------------------|---------------------|---------------------|---------------------|----------------|
| Destination Name | Duration | Total Calls | Completed Calls | ASR | Average Duration | Revenue | Cost | Gross Margin | Gross Margin % |
| Grand Totals: | 2,076,265.94 | 1,123,159 | 620,869 | 55.28% | 3.34 | \$433,281.56 | \$323,425.86 | \$109,855.44 | 25.35% |
| BENIN-MOBILE | 44,569.57 | 24,052 | 13,309 | 55.33% | 3.35 | \$9,918.99 | \$6,821.85 | \$3,097.14 | 31.22% |
| BELGIUM-MOBILE | 42,701.75 | 23,002 | 12,714 | 55.27% | 3.36 | \$10,964.58 | \$8,836.87 | \$2,127.71 | 19.40% |
| AUSTRALIA-MOBILE | 39,079.99 | 21,201 | 11,668 | 55.04% | 3.35 | \$10,401.6 | \$8,233.85 | \$2,167.75 | 20.84% |
| SPAIN-MOB MOVISTAR | 38,932.6 | 20,976 | 11,643 | 55.51% | 3.34 | \$6,897.79 | \$5,244.06 | \$1,653.73 | 23.97% |
| CANADA | 38,271.13 | 20,591 | 11,398 | 55.35% | 3.36 | \$6,572.6 | \$3,981.62 | \$2,590.98 | 39.42% |
| SPAIN-MOB VODAFONE | 28,397 | 15,523 | 8,535 | 54.98% | 3.33 | \$5,101.93 | \$4,186.38 | \$915.55 | 17.94% |
| SPAIN-MOB ORANGE | 27,905.43 | 15,177 | 8,344 | 54.98% | 3.34 | \$4,921.38 | \$3,659.95 | \$1,261.43 | 25.63% |
| NETHERLANDS-MOBILE KPN | 25,203.23 | 13,574 | 7,506 | 55.30% | 3.36 | \$4,447.18 | \$3,302.44 | \$1,144.74 | 25.74% |
| ALGERIA-MOBILE | 25,088.11 | 13,515 | 7,510 | 55.57% | 3.34 | \$6,169.21 | \$5,129.19 | \$1,040.02 | 16.85% |
| MAYOTTE ISL-MOBILE | 23,925.73 | 13,039 | 7,161 | 54.92% | 3.34 | \$4,975.82 | \$3,917.89 | \$1,057.92 | 21.26% |
| SWITZERLAND-MOBILE | 21,884.21 | 11,754 | 6,577 | 55.96% | 3.33 | \$4,944.79 | \$4,077.43 | \$867.35 | 17.54% |
| POLAND-MOBILE | 21,454.36 | 11,520 | 6,429 | 55.81% | 3.34 | \$5,124.99 | \$3,869.21 | \$1,255.78 | 24.50% |
| CHAD-MOBILE | 20,379.78 | 10,931 | 6,094 | 55.75% | 3.34 | \$4,657.63 | \$3,640.37 | \$1,017.26 | 21.84% |

Customer Comparison Reports – Totals Only and Totals with Destinations

8 hour comparison of Arbinet by MOUs, Average Duration, ASRs with color coding of increases (green) and decreases (red):

| Name | Destination Name | Yesterday's Duration | Today's Duration | Duration Comparison | Yesterday's Avg Duration | Today's Avg Duration | Avg Duration Comparison | Yesterday's ASR | Today's ASR | ASR Compar |
|-----------------------------|--------------------------|----------------------|---------------------|---------------------|--------------------------|----------------------|-------------------------|-----------------|--------------|--------------|
| Customer Total | Destination Total | 1,691,186.85 | 1,704,441.30 | 13,254.45 | 5.29 | 5.60 | 0.30 | 19.26 | 16.11 | -3.15 |
| Arbinet | Destination Total | 127,594.56 | 129,146.11 | 1,551.55 | 8.75 | 8.58 | -0.17 | 25.83 | 21.56 | -4.28 |
| Arbinet | ALGERIA ALGIERS | 15,485.58 | 14,446.78 | -1,038.80 | 11.70 | 11.45 | -0.26 | 31.93 | 26.24 | -5.70 |
| Arbinet | ALGERIA PROPER | 51,288.17 | 49,086.22 | -2,201.95 | 10.62 | 9.82 | -0.80 | 28.50 | 22.62 | -5.88 |
| Arbinet | EGYPT PROPER | 22,837.52 | 19,299.62 | -3,537.90 | 7.14 | 7.06 | -0.07 | 43.81 | 39.28 | -4.53 |
| Arbinet | GUINEA MOBILE - SOTELGUI | 776.68 | 1,360.08 | 583.40 | 1.50 | 2.79 | 1.29 | 27.43 | 20.72 | -6.71 |
| Arbinet | IRAQ PROPER | 5,068.12 | 4,252.55 | -815.57 | 12.83 | 12.22 | -0.61 | 36.44 | 27.64 | -8.80 |
| Arbinet | LEBANON MOBILE | 1,605.73 | 3,270.77 | 1,665.04 | 4.28 | 4.22 | -0.06 | 26.84 | 31.16 | 4.32 |
| Arbinet | MOROCCO CASABLANCA | 1,872.72 | 4,066.00 | 2,193.28 | 9.14 | 10.90 | 1.77 | 31.25 | 50.13 | 18.88 |
| Arbinet | MOROCCO PROPER | 8,185.82 | 12,657.18 | 4,471.36 | 10.21 | 10.61 | 0.40 | 42.26 | 47.12 | 4.86 |
| Arbinet | MOROCCO RABAT | 2,114.35 | 3,432.60 | 1,318.25 | 9.70 | 10.16 | 0.46 | 47.60 | 54.34 | 6.74 |
| Arbinet | YEMEN MOBILE | 3,345.27 | 5,030.23 | 1,684.96 | 5.86 | 7.34 | 1.48 | 18.58 | 8.80 | -9.78 |
| Arbinet | YEMEN PROPER | 5,473.17 | 3,275.30 | -2,197.87 | 7.97 | 6.31 | -1.66 | 16.66 | 7.73 | -8.93 |
| Arbinet DirectAccess | Destination Total | 16,918.52 | 15,555.55 | -1,362.97 | 5.03 | 5.06 | 0.03 | 24.38 | 18.57 | -5.82 |
| Arbinet DirectAccess | EGYPT MOBILE | 16,658.27 | 15,088.62 | -1,569.65 | 5.05 | 5.04 | -0.01 | 24.33 | 18.57 | -5.96 |
| Arbinet PEX (IP) | Destination Total | 5,661.63 | 6,675.13 | 1,013.50 | 8.38 | 8.91 | 0.54 | 30.44 | 35.55 | 5.11 |
| Arbinet PEX (IP) | GHANA MOBILE - AREEBA | 4,197.75 | 5,060.97 | 863.22 | 8.40 | 9.09 | 0.69 | 43.52 | 49.03 | 5.52 |

Operational Reports.

Besides financial summarized above and numerous emailed, auto generated reports, BlueWater software also has an array of operational reports that contain no financial data. Thus, if our BlueWater customer wants to restrict employee access from financial information, this is easy to do by assigning operational reports to certain employees. A User chooses the parameters of report -- including report type, class of service, date range, and customer or supplier view-- for the type of information they want to receive. The ASR Report and Report GRID are formatted like the Margin Reports, but contain no financial information. Report filter options are presented to the user,

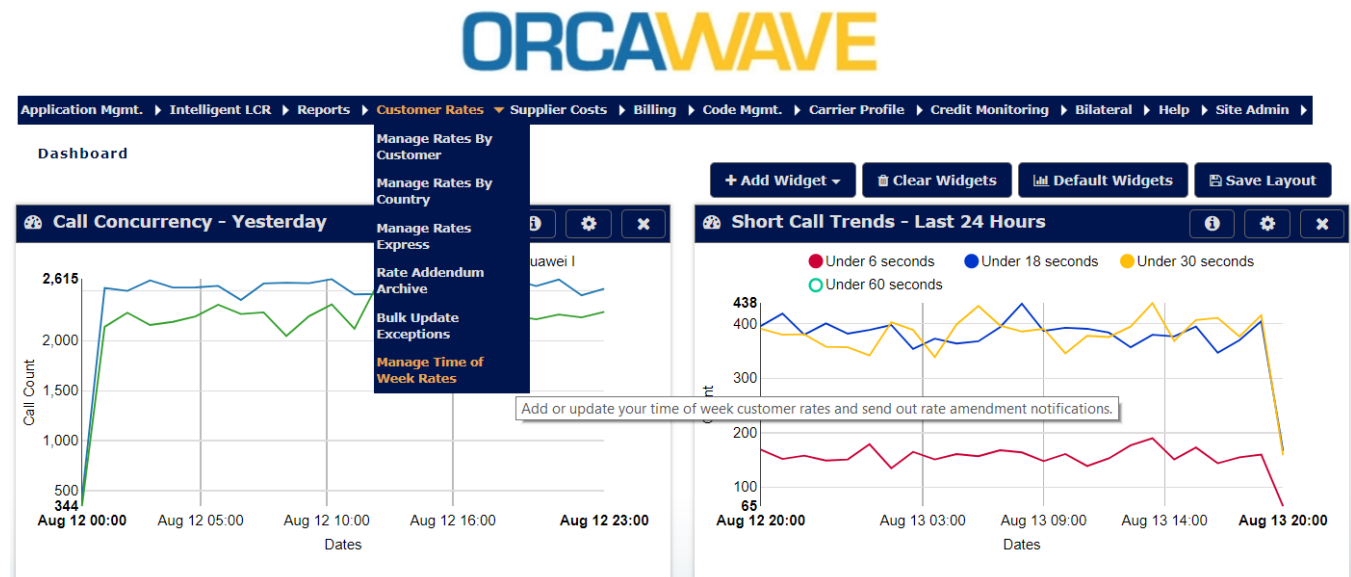
Additional reports include:

- NOC Routing Report – Routing with MOUs versus cost displayed
- Routing Modifications Report – List Default, Exception & lowest quoted customer rate impacts with \$ per MOU identified
- Routing Comparison Report – Current versus Proposed routing
- Target List Report – For supplier negotiations showing ASP, MOUs, % =< 1st Route cost
- Customer/Supplier price history
- Customer rate addendums, invoice/ payments history
- Exchange Rate history
- Primary contract terms by carrier relationship
- Other reports available include: codes, supplier cost analysis, QoS, etc.

Customer Rates and Customer Billing

Customer Rating

A BlueWater user can generate customer rates in 4 different ways, which cover all needed carrier requirements for quickly generating profitable based customer rates by different products and emailing to your customers. As with all customer rates generation options, the User sees the current routing cost, suppliers and average cost of all destinations being rated. The different customer rates generation include:



Manage Rates by Customer

Once a Customer is chosen by the User, then by choosing the different 'bulk update rating rules (fixed or percent above cost type (average cost, routing cost or existing rates), BlueWater calculates the appropriate rate, determines if the new rate is an increase or decrease and then establishes the effective date based on the contract notification rules assigned to that customer. The User then emails the new rate addendum to the customer – which then automatically updates the customer's billing and CDR importing. Any rate decreases that occur same day, middle of the day, CDRs are automatically reprocessed for the correct customer rate and margin a bit after midnight.

Manage Rates by Country

This BlueWater customer rates sub-module is especially useful if a country or destination group experiences a price increase and the User needs to get the new rates out to all customers. Once the country is chosen and then the User establishes the bulk update rules over various cost parameters, all customer rate addendums are generated for emailing to customers.

Application Mgmt. ▶ Intelligent LCR ▶ Reports ▶ Customer Rates ▶ Supplier Costs ▶ Billing ▶ Code Mgmt. ▶ Carrier Profile ▶ Credit Monitoring ▶ Bilateral ▶ Help ▶ Site Admin ▶

Customer Rates | Manage Rates By Country

Country: Customer:

☐ Get all Customers?

Current Rates **Add/Update Rates**

Bulk Update Options

Bulk Update By: Over: Amount:

| Customer | Destination (Parent Code) | Current Rate | Average Cost | Routing | New Rate | Pending Rate | Margin (Margin %) | | |
|---|-----------------------------|--|--------------|--|----------|--------------|------------------------------|----------------------|---------------------|
| Africa Mobile Carrier 1 (Wholesale-Active-USD) Huawei II-Wholesale | AUSTRALIA ADELAIDE (61-XXX) | (R) 0.0126 (D) 5/8/2015 (T) 0:00-23:59 | 0.0709234988 | View Routing | | | View Margins | Edit | End |
| Africa Mobile Carrier 1 (Wholesale-Active-USD) Huawei II-Wholesale | AUSTRALIA BRISBANE (6173) | (R) 0.0115 (D) 5/8/2015 (T) 0:00-23:59 | 0.020947461 | (1) OST-0.008 (2) Vtalk-0.009 (3) VODA-0.0098 (4) PHNTM-0.0101 (5) TI HQ-0.0105 (6) AMC-0.012 (7) Nobel-0.014 (8) PinYi-0.0142 | | | -0.009447461 (-82.15) | Edit | End |
| Africa Mobile Carrier 1 (Wholesale-Active-USD) Huawei II-Wholesale | AUSTRALIA CANBERRA (61-XXX) | (R) 0.0123 (D) 5/8/2015 (T) 0:00-23:59 | 0.0106137441 | (1) OST-0.0092 (2) VODA-0.0098 (3) PHNTM-0.0104 (4) TI HQ-0.0105 (5) Vtalk-0.011 (6) AMC-0.012 (7) Nobel-0.014 (8) PinYi-0.0142 | | | 0.0016862559 (13.71) | Edit | End |

Manage Rates Express

BlueWater allows the User to easily customize rates to individual or a group of customers. A User simply chooses the combination of destinations and customers, (and a 'default rate' if appropriate) and the User is presented with a work screen to generate the rate addendum. As with other customer rate creation options, the User is presented with Average Cost and suppliers/cost for each destination group being rated. Also, BlueWater will determine the effective date of the rate based on the contractual notification rules of each customers. These effective dates can be overwritten by the User.

Below is the Web UI for the User generating custom rates for Brazil Mobile to a handful of customers.

Customer Rates | Manage Rates Express

Search Options

Results

Parent Country:

BRAZIL PROPER

Groups: (Default - all Groups | Select a Maximum of 20)

BRAZIL MARINGA (55)

BRAZIL MOBILE - CLARO (55)

BRAZIL MOBILE - OTHER CARRIERS (55)

BRAZIL MOBILE - TIM (55)

BRAZIL NATAL (55)

BRAZIL PORTO ALEGRE (55)

BRAZIL PROPER (55)

BRAZIL RECIFE (55)

BRAZIL RIO DE JANEIRO (55)

☐ Clear selected Groups

View:

With Rates Only

Customers: (Default - all Customers | Select a Maximum of 20)

Africa Mobile Carrier 1 (Wholesale / Active)

Africa Mobile Carrier 2 (Wholesale / Active)

Africa Mobile Carrier 3 (Wholesale / Active)

Africa Mobile Carrier 4 (Wholesale / Active)

Belgacom-ICS (Wholesale / Active)

Broadvox (U.S. Interstate / Active)

Broadvox (U.S. Intrastate / Active)

Call Center Traffic (Retail / Active)

CallVox (Wholesale / Active)

☐ Clear selected Customers

Default New Rate:

Default Start Date:

Get Rates

Clear Form

The User's worksheet appears. If the User knew the Default new rate, then the worksheet would be prepopulated.

Customer Rates | Manage Rates Express

Search Options

Results

Save Page

Export to TDF

Preview Report

1

| Customer | Destination (Parent Code) | T.O.D. | Current Rate | Avg Cost | 1 st -3 rd Route | New Rate | Start Date | Pending Rate |
|---|---|--------------|----------------------------|----------|---|----------|------------|--------------|
| Africa Mobile Carrier 2 (Wholesale-Active-USD) Huawei II-Wholesale | BRAZIL MOBILE - CLARO (55-xxx) | 0:00 - 23:59 | (R) 0.025 (D) 2/1/2015 | 0.0095 | (1) VODA 0.0218 (2) SmCOM 0.0234 (3) PinYi 0.0245 | | | |
| Africa Mobile Carrier 2 (Wholesale-Active-USD) Huawei II-Wholesale | BRAZIL MOBILE - OTHER CARRIERS (55-xxx) | 0:00 - 23:59 | (R) 0.025 (D) 2/1/2015 | 0.0095 | (1) VODA 0.0218 (2) SmCOM 0.0234 (3) PinYi 0.0245 | | | |
| Africa Mobile Carrier 2 (Wholesale-Active-USD) Huawei II-Wholesale | BRAZIL MOBILE - TIM (55-xxx) | 0:00 - 23:59 | (R) 0.025 (D) 2/1/2015 | 0.0090 | (1) OST 0.0193 (2) VODA 0.0218 (3) SmCOM 0.0234 | | | |
| Belgacom-ICS (Wholesale-Active-USD) Huawei II-Wholesale | BRAZIL MOBILE - CLARO (55-xxx) | 0:00 - 23:59 | (R) 0.0284 (D) 7/5/2017 | 0.0095 | (1) VODA 0.0218 (2) SmCOM 0.0234 (3) PinYi 0.0245 | | | |
| Belgacom-ICS (Wholesale-Active-USD) Huawei II-Wholesale | BRAZIL MOBILE - OTHER CARRIERS (55-xxx) | 0:00 - 23:59 | (R) 0.0284 (D) 7/5/2017 | 0.0095 | (1) VODA 0.0218 (2) SmCOM 0.0234 (3) PinYi 0.0245 | | | |
| Belgacom-ICS (Wholesale-Active-USD) Huawei II-Wholesale | BRAZIL MOBILE - TIM (55-xxx) | 0:00 - 23:59 | (R) 0.0268 (D) 7/5/2017 | 0.0090 | (1) OST 0.0193 (2) VODA 0.0218 (3) SmCOM 0.0234 | | | |
| CallVox (Wholesale-Active-USD) Huawei II-Wholesale | BRAZIL MOBILE - CLARO (55-xxx) | 0:00 - 23:59 | (R) 0.0253 (D) 1/1/2012 | 0.0095 | (1) VODA 0.0218 (2) SmCOM 0.0234 (3) PinYi 0.0245 | | | |
| CallVox (Wholesale-Active-USD) Huawei II-Wholesale | BRAZIL MOBILE - OTHER CARRIERS (55-xxx) | 0:00 - 23:59 | (R) 0.0253 (D) 1/1/2012 | 0.0095 | (1) VODA 0.0218 (2) SmCOM 0.0234 (3) PinYi 0.0245 | | | |

Bulk Update Customer Rates

For every BlueWater customer, a User can set the 'bulk update' rating rules for creation of customer rates by each customer contract(product). Then the User just has autogenerated the customer rates or manually initiates the customer rates bulk update function. Below is an web UI associated with assigning the bulk update rating.

[Current Contracts](#)
[Add/Update Contract](#)

Contract Type: Customer

Account Code: Belgacom-ICS

Customer Identify Type: Trunk Group

Status: Active

Bill Cycle: Monthly

Class Of Service: Wholesale

Effective Dates: Start Date: 1/1/2012 End Date: Optional.

Carrier: Belgacom-ICS

Switch: Huawei II

Parititon: Wholesale

Currency Type: US Dollar (USD)

Payment Terms: NET 30

Deposit Amount: 0.0000

Rate Days: New: 7 Increase: 7 Decrease: 0

[Bulk Update Options](#)
[Billing Durations](#)

Update Type: None Selected

Amount: None Selected

Update Target: Route Cost

Target Route: 1

Update Contract

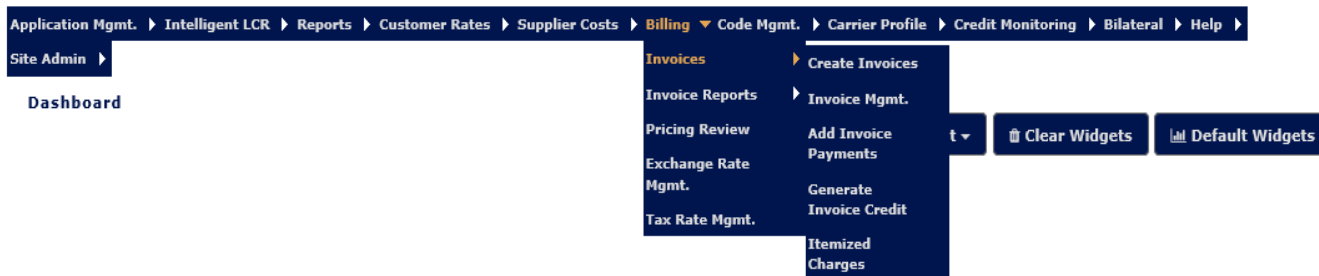
Clear Form

Customer Billing

Our BlueWater Billing module is extremely flexible and supports a variety of different carrier products, billing cycles, variable and NRC/MRC rate assignments to DID, toll free, ITFS numbers and other miscellaneous products and services. As well as intelligent routing that is 'reversed', BlueWater software can rate and bill 'reverse' charges.

- Support multiple customer specific billing cycles
- Fully integrated with a variety of taxation platforms
- Choose billing durations by customer by destination by product
- Generate customer per MOU rates will bulk updates (percent or fixed) over routing costs
- Variable Rate to MOU:
 - US domestic & international calling
 - Toll Free calling
 - Conferencing, etc.
- NRC / MRC fees for
 - PRI Seat packages, etc. – basic, premium, etc. (with different levels of non-billed calls and per MOUs after exceeding
 - Other packages supported as needed

Our Billing module supports miscellaneous charges, AR tracking, payment history and has a customer portal. In addition, Orca Wave can exchange information with our BlueWater customer's GL platform by keying in on the Account Code assigned to each customer.



Below is an invoice example from Invoice Management. The Invoice statement contains all of the necessary summary and payment information, and can include MRC/NRC, Misc. charges, taxes, time zone, as well as optional previous balance information. In addition, a Detail Summary – containing traffic detail by day with number of calls, MOUs and rate per MOU—and a Summary Detail that lists similar information by each destination for the billing period. Note that customer portal is included with BlueWater, so delivery of reporting, invoices and invoice CDRs is made easy to the user.

| Invoice ID | Customer | Invoice # | Customer Account Code | Invoice Date | Invoice Period | Due Date |
|------------|---------------------|-----------|-----------------------|--------------|-----------------------------|--------------|
| 124 | Africa Mobile Car | 131 | BVOX | Mar 08, 2015 | Mar 02, 2015 - Mar 08, 2015 | Mar 15, 2015 |
| 122 | Africa Mobile Car | | | | | |
| 79 | Africa Mobile Car | | | | | |
| 84 | Africa Mobile Car | | | | | |
| 125 | Africa Mobile Car | | | | | |
| 128 | Africa Mobile Car | | | | | |
| 77 | Africa Mobile Car | | | | | |
| 85 | Africa Mobile Car | | | | | |
| 129 | Africa Mobile Car | | | | | |
| 126 | Africa Mobile Car | | | | | |
| 130 | Africa Mobile Car | | | | | |
| 78 | Africa Mobile Car | | | | | |
| 86 | Africa Mobile Car | | | | | |
| 131 | Broadvox (BVOX) | | | | | |
| 39 | Broadvox (BVOX) | | | | | |
| 79 | Broadvox (BVOX) | | | | | |
| 87 | Broadvox (BVOX) | | | | | |
| 132 | Call Center Traffic | | | | | |
| 2 | Call Center Traffic | | | | | |
| 40 | Call Center Traffic | | | | | |
| 88 | Call Center Traffic | | | | | |
| 133 | CallVox (CallVox) | | | | | |
| 3 | CallVox (CallVox) | | | | | |
| 41 | CallVox (CallVox) | | | | | |
| 89 | CallVox (CallVox) | | | | | |
| 134 | Conferencing (CC) | | | | | |
| 4 | Conferencing (CC) | | | | | |
| 42 | Conferencing (CC) | | | | | |
| 90 | Conferencing (CC) | | | | | |
| 135 | Costmaster (Cos) | | | | | |
| 43 | Costmaster (Cos) | | | | | |
| 5 | Costmaster (Cos) | | | | | |
| 91 | Costmaster (Cos) | | | | | |

As indicated, a wide range of billing cycles are covered and more can be easily added:



For more information, go to <https://OrcaWave.net> and request a demo.