

FlowMagic — The Data Mining Machine

FlowMagic-3240 Quick Start Guide

FlowMagic-3240 Quick Start Guide



Control Button and System Status LEDs

Management 10/100/1000 RJ-45 Port

USB Ports

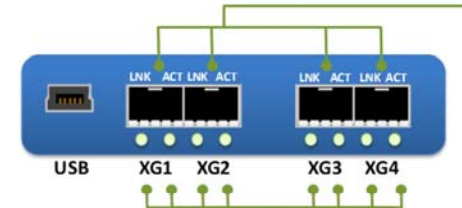
Management 10/100/1000 RJ-45 Ports
USB Ports

DB-9 Serial Port

AC Power Supplies

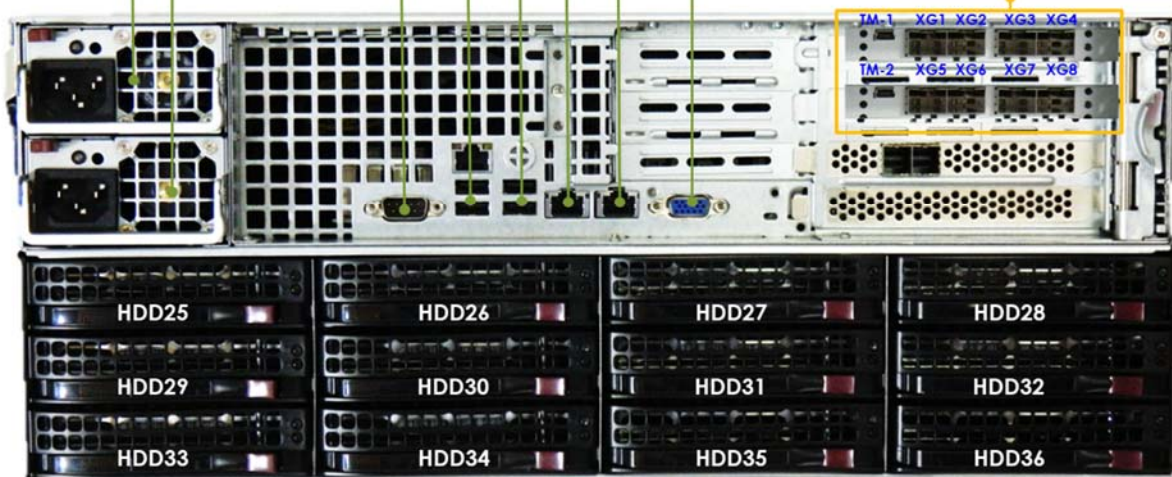
Traffic Module—iNIC-T40G*

10G/1G Traffic Ports



VGA Port

10G/1G SFP+/SFP LEDs



Warning: After power on, due to its large memory size, the system will take about 2 minutes to finish the Power Self Test.

After that, the main screen will be turned on and the boot will continue.

Data Drives Selection Guide

- 3.5" SATA Drives
- Up to 16 TB

The available iNIC Traffic Modules

Part Number	Description	Port Count	Port Specification
iNIC-T2G/T4G/T6G-RJ45	Dual/Quad/Six Ports Copper (RJ-45) 10Mb/100Mb/1Gb Intelligent Network Interface Module	2, 4 or 6	10Mb/100Mb/1Gb RJ45
iNIC-T2G/T4G/T6G-SFP	Dual/Quad/Six Ports SFP 10Mb/100Mb/1Gb Intelligent Network Interface Module	2, 4 or 6	10Mb/100Mb/1Gb SFP Fiber
iNIC-T20G/40G-RJ45	Dual/Quad Ports Copper (RJ-45) 1Gb/10Gb Intelligent Network Interface Module	2 or 4	10Mb/100Mb/1Gb/10Gb RJ45 Copper
iNIC-T20G/T40G-SFP	Dual/Quad Ports SFP 1Gb/10Gb Intelligent Network Interface Module	2 or 4	1Gb/10Gb SFP/SFP+ Fiber
iNIC-T40G	Quad Ports SFP/SFP+ 1Gb/10Gb LAN and 9.953Gb WAN Intelligent Network Interface Module	4	1Gb/10Gb SFP/SFP+ Fiber 9.953Gb WAN SFP+ Fiber
iNIC-T50G	Dual Ports SFP/SFP+/SFP28 1Gb/10Gb/25Gb Intelligent Network Interface Module	2	1Gb/10Gb/25Gb SFP/SFP+/SFP28 Fiber
iNIC-T80G	Dual Ports QSFP+ 40Gb Intelligent Network Interface Module	2	40Gb QSFP+ Fiber
iNIC-T200G	Dual Ports QSFP+/QSFP28 40Gb/100Gb Intelligent Network Interface Module	2	40Gb/100Gb QSFP+/QSFP28 Fiber

Management Panels and Management Entries

1 Click to invoke port menu

2 Click to change port name

3 Time Settings

4 OS Upgrade

The screenshot displays the InfiniCore Networks management interface. The top section, 'DEVICE VIEW', shows a list of ports (XG17, XG18, XG19, XG20) with their respective status and speed (10G). A context menu is open for XG17, showing options like 'Rename', 'Clear Statistics', 'Enable', 'Disable', 'Activate Capture Domain', 'Start Easy Capture...', 'View Packet', 'Link Attributes', 'Setting...', and 'Show Statistics...'. The 'DEVICE INFORMATION' panel below shows details for the device (FM-006-6281), including up time, system time, host name, management IP, firmware version, location, and contact. The 'DEVICE OPERATIONS' panel on the right provides various management actions: Users, Services, Event Notifications, and InfiniCORE OS Update. The OS Upgrade button is highlighted with a red octagon and a callout.

DEVICE VIEW

Port	Status	Speed
XG17	Online	10G
XG18	Online	10G
XG19	Online	10G
XG20	Online	10G

DEVICE INFORMATION

Serial Number:	FM-006-6281
Up Time:	0 day(s) 11 hour(s) 51 min(s) 6 sec(s)
System Time:	2015-01-27 12:34:10 -0800
Host Name:	FM-3200
Management IP:	192.168.0.228
Firmware Version:	1.6.3.7-QA
Location:	R&D Lab
Contact:	R&D

DEVICE OPERATIONS

Configuration:	[Save]	[Download]	[Upload]	[Reset]
Appliance:	[Reboot]	[Shutdown]	[Zeroize]	
Auto Refresh: 60 SEC.				

WORK FLOW 1: Enable Data Drive

Default User Name: admin

By default, Account 'admin' does not have password.

Default management IP: 192.168.0.221

Switch to Storage TAB

1. Select Drive

Disable Drive if Enabled

2. Format

3. Enable Drive

The screenshot shows the FlowMagic-3200 web interface. The 'STORAGE' tab is active. In the left sidebar, 'All Storages' is expanded, showing 'Local Storage' with BAY2, BAY3, and BAY4. The main table lists drives. Drive BAY2 is selected, and its 'Operations' column shows buttons for [Enable], [Format], [Benchmark], and [Info]. The 'Local Storage' section at the bottom shows a 'Front' view with BAY2, BAY3, and BAY4.

Device	RAID	WWN_OUI	Model	Serial	Firmware	Transport	Bay	Usage	RPM	Health	Operations
BAY2	NO	Seagate Technology	ST2000NM0011	Z1P0A7PJ	SN02	Serial, SATA Rev 3.0	2	Capacity: 2 TB	7202	GOOD	[Enable] [Format] [Benchmark] [Info]
BAY3											
BAY4											

Note 1: Need to perform only once for newly installed drive

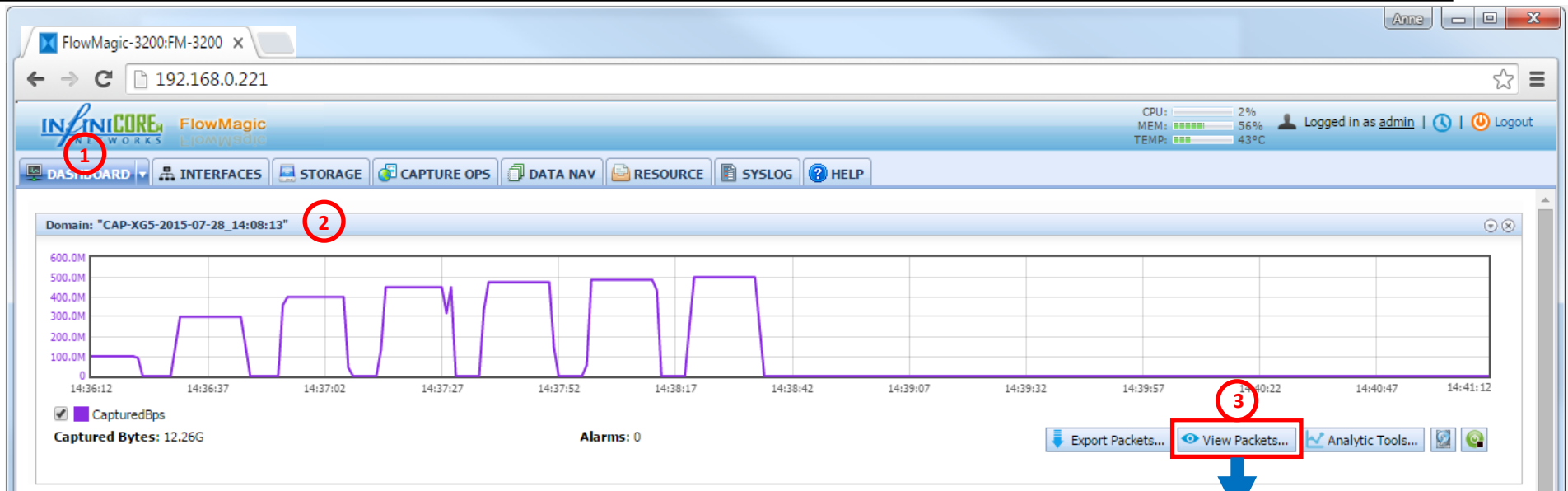
Note 2: Save the configuration when done

WORK FLOW 2: Capture Traffic at 1Gb or 10Gb Speed

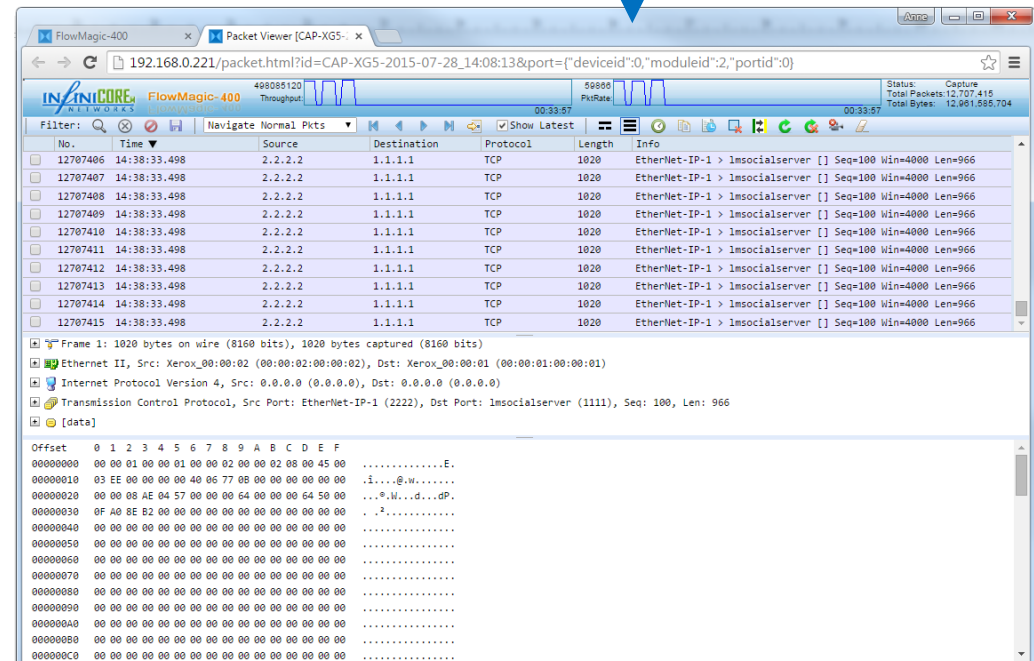
The screenshot shows the FlowMagic-3200 web interface. The top navigation bar includes links for DASHBOARD, INTERFACES, STORAGE, CAPTURE OPS, DATA NAV, RESOURCE, SYSLOG, and HELP. The DASHBOARD link is circled with a red '1'. Below the navigation bar, the 'CAPTURE DOMAINS' section is visible. The 'DEVICE VIEW' section shows a network diagram with interfaces XG5, XG6, XG7, and XG8. The XG5 interface is selected, and its speed is set to 10G. This selection is circled with a red '2'. A blue arrow points from the XG5 interface to the 'Capture Settings' dialog box. In the 'Capture Settings' dialog, the 'Speed' dropdown is set to 'SFP+: 10Gbps Full Duplex' and is circled with a red '3'. The 'Merge Traffic' section shows the selected interface 'INICT40G-2 XG5 XG5' with a speed of '10Gbps Full Duplex' and 'No Tagging'. The 'Capture Mode' is set to 'Capture To Disk'. The 'Storage Configuration' section shows a table with columns for BAY, Weight, and Operations. The BAY1 is selected, and its weight is set to 1. This selection is circled with a red '4'. At the bottom right of the dialog, the 'Capture' button is circled with a red '5'.

1. Switch to Dash Board
2. Select interface to capture
3. Select interface speed
4. Select data drive (s) to store captured traffic
5. Click Capture

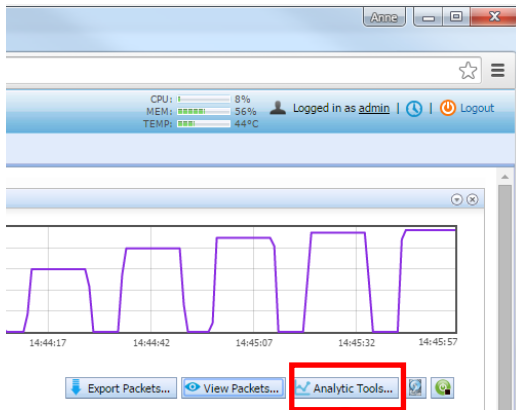
WORK FLOW 3: Decode and Real-time View over Captured Traffic



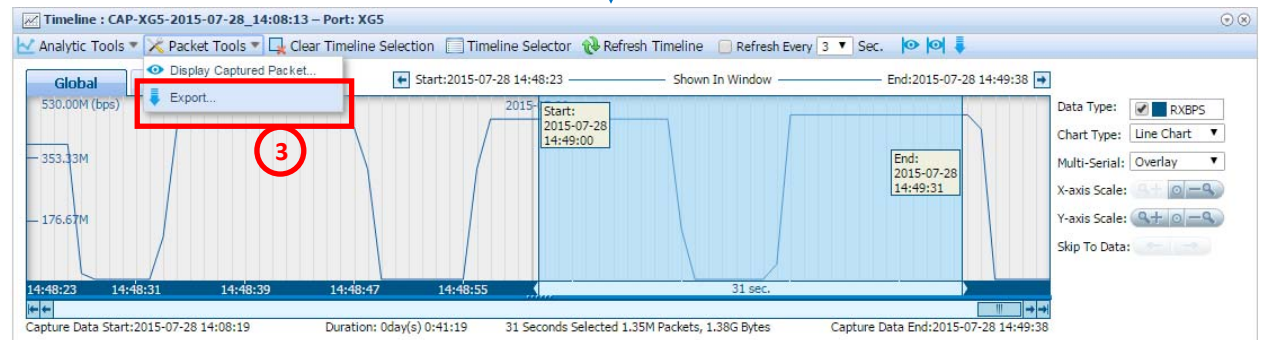
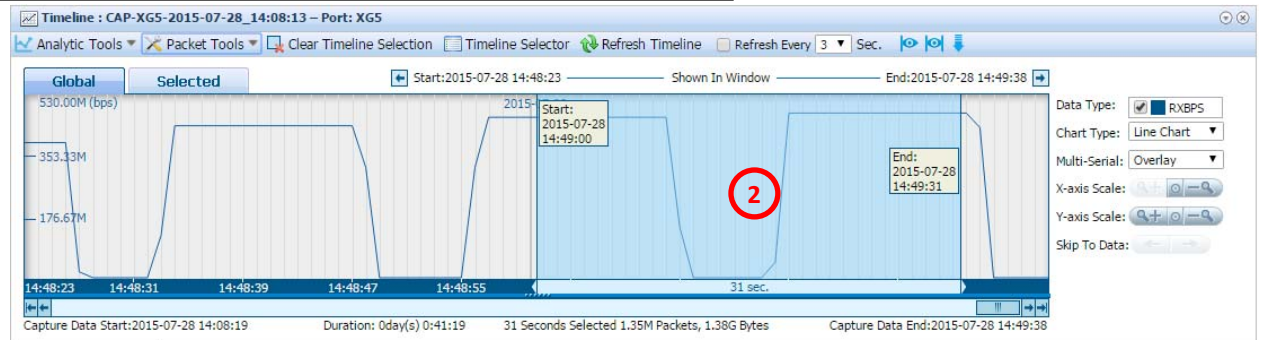
1. Switch to Dash Board
2. Find the Capture Domain
3. Click on the Packet Viewer



WORK FLOW 4: Export Captured Traffic into PCAP



1. Invoke the Analytics
2. Select Timeline
3. Select Packet Tools —> Export
4. Click Export



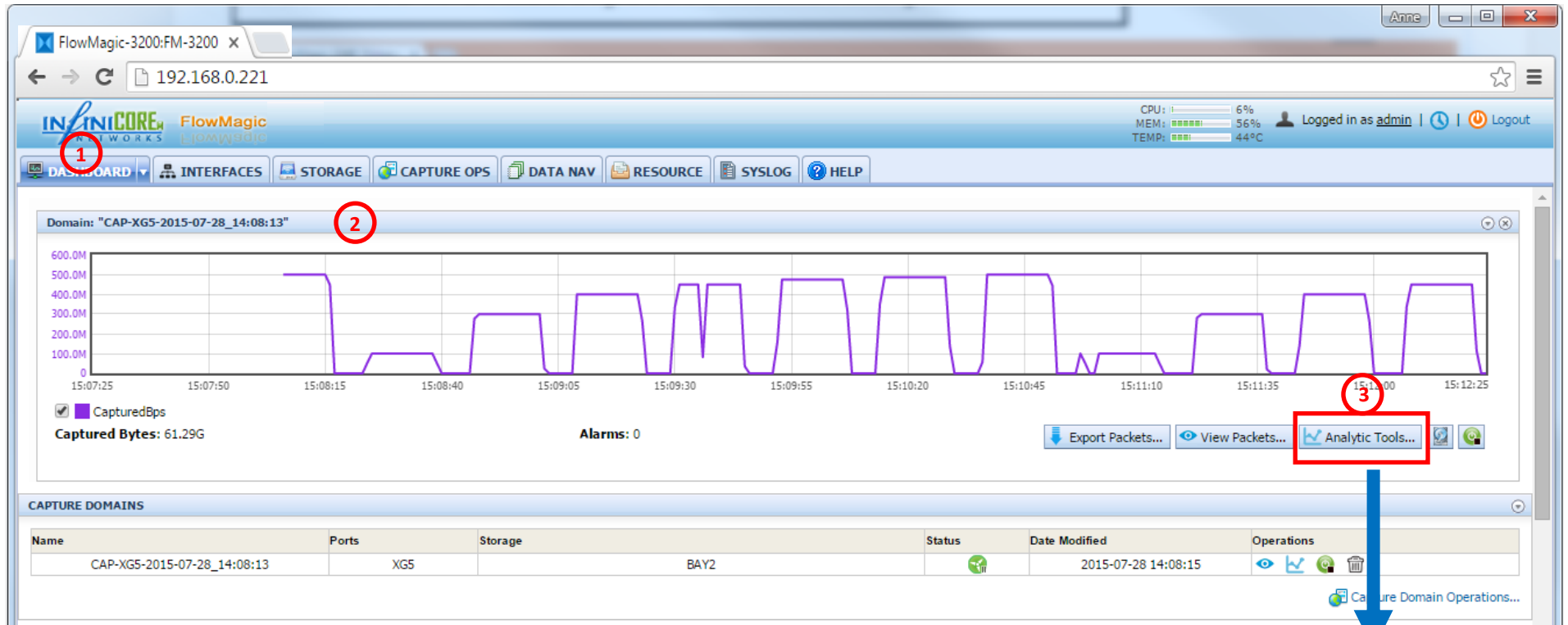
The 'Export Packets into PCAP file' dialog box shows the following settings:

- Start Time: 2015-07-28 14:49:00
- End Time: ☒ Duration in Seconds 31 ☐ At 2015-07-28 14:49:31
- Split Size (MB): 128
- ☐ Compress ☐ As a single file
- Output Resolution: Microsecond
- ☐ Enable Packet Normalization
- Filters table:

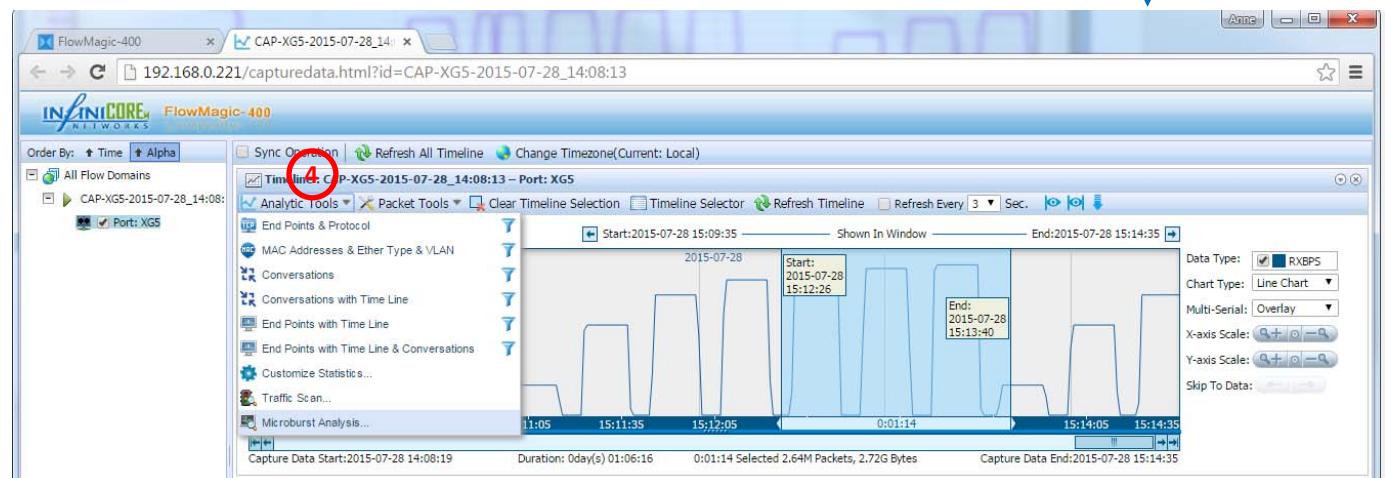
Name	Field	Role	Value	Mask	Operations
			[Export]	[Import]	[Load Template] [Save As Template] [New Filter]

At the bottom, the 'Export' button is highlighted with a red box and a circled '4'.

WORK FLOW 5: Retrospective Traffic Analysis



1. Switch to Dash Board
2. Find the Capture Domain
3. Click on the Analytics
4. Choose Analytics Tools





BUILD SOMETHING BETTER FOR NETWORKS

Web: <http://www.infinicoreinc.com>

support@infinicoreinc.com