

## Flowmon Collector Models List

Valid from 1.4.2020

### Flowmon Collector

Flowmon Collectors are stand-alone appliances for collection, long-term storage and analysis of flow data (NetFlow, IPFIX, sFlow, and other technologies compatible with NetFlow) from flow enabled devices (switches, routers), Flowmon Probes or other flow sources. Flowmon Collector's functionalities can be extended with Flowmon modules.

### Flowmon Collector Models

Flowmon Collectors are available in form of physical (hardware) 1U and 2U rack units and as a virtual appliance for deployment into VMware, Hyper-V, KVM virtual environments and AWS or Azure cloud environments.



### Hardware Appliances

All Flowmon Collector models are equipped with **Flowmon Monitoring Center (FMC)** – tool for flow collection, viewing and analyzing, automatic reporting and more. It provides complete visibility into network traffic through dashboards, long-term graphs with various perspectives, Top N statistics, user-defined profiles, possibility to drill-down to any communication and more. Flowmon Collector models differ in storage capacity, type of RAID, performance and dimensions of server (1U/2U).

All Flowmon Collectors are equipped with two copper 10/100/1000 Ethernet **management (administration) ports** which are used for appliance configuration, management and flow data collection. Management ports can be upgraded to 10Gb Ethernet ports by upgrade package. Upgrade can be purchased only for the new appliances (at the moment of purchase).

### Virtual Appliances

Flowmon Collector VA are designed for deployment into virtual and cloud environments (VMware, Hyper-V, KVM with OpenStack, AWS and Azure) and provide the **same functionality** as Flowmon Collector in form of physical devices. Flowmon Collector models differ in performance and storage capacity.

In addition, Flowmon Collector VA includes **2x 1GbE monitoring ports**, which provide network traffic monitoring and flow data (NetFlow/IPFIX) generation. Flowmon Collector VA enable network traffic monitoring in virtual environment without necessity of other appliances for flow data generation.

All Flowmon Collector VA models are equipped with two **management (administration) ports** which are used for appliance configuration, management and flow data collection.

### Distributed Architecture

Distributed architecture (DA) provides high scalability and load balancing for large and demanding environments with high volumes of flow data and flow sources. Flow data is distributed among multiple units for profiles computation and other flow data processing. More units can be simply added to increase both performance and storage capacity. Distributed Architecture provides central console for management and configuration of all units remote geographical locations as well as data aggregation and visualization in one place.

There are 3 types of units in DA: Master, Proxy and Slave units. **Master and Proxy units** are **dedicated hardware or virtual appliances**. **Slave Units** are traditional Flowmon Collectors (hardware or virtual appliances).

Find out more about [Distributed Architecture](#).

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### Hardware Appliances

P/N	Model	Performance (fps) <sup>1</sup>	Storage Capacity	RAID	Disk Type	CPU <sup>2</sup>	RAM	Remote Control	Form Factor	Dimension (H x W x D) cm	Weight (kg)
IFC-R5-1000	Flowmon Collector R5-1000	75 000	1 TB	HW RAID5	3 x SATA Hot Swap	8	32 GB	Enterprise	1U	4.3 x 43.4 x 57.3	12.2
IFC-R5-2000	Flowmon Collector R5-2000	100 000	2 TB	HW RAID5	3 x SATA Hot Swap	8	32 GB	Enterprise	1U	4.3 x 43.4 x 57.3	12.2
IFC-R5-3000PRO	Flowmon Collector R5-3000 Pro	150 000	3 TB	HW RAID5	4 x SATA Hot Swap	32	64 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6
IFC-R10-4000PRO	Flowmon Collector R10-4000 Pro	250 000	4 TB	HW RAID10	4 x SATA Hot Swap	32	64 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6
IFC-R5-6000PRO	Flowmon Collector R5-6000 Pro	150 000	6 TB	HW RAID5	4 x SATA Hot Swap	32	64 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6
IFC-R5-12000PRO	Flowmon Collector R5-12000 Pro	200 000	12 TB	HW RAID5	4 x SATA Hot Swap	48	128 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6
IFC-R10-16000PRO	Flowmon Collector R10-16000 Pro	300 000	16 TB	HW RAID10	4 x SATA Hot Swap	48	128 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6
IFC-R5-24000PRO	Flowmon Collector R5-24000 Pro	200 000	24 TB	HW RAID5	4 x SATA Hot Swap	48	128 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6
IFC-R6-48000PRO	Flowmon Collector R6-48000 Pro	250 000	48 TB	HW RAID6	8 x SATA Hot Swap	32	128 GB	Enterprise	2U	8.7 x 43.4 x 68.2	25.4
IFC-R6-96000PRO	Flowmon Collector R6-96000 Pro	250 000	96 TB	HW RAID6	12 x SATA Hot Swap	32	128 GB	Enterprise	2U	8.7 x 43.4 x 71.6	33.1
IFC-R6-192000PRO	Flowmon Collector R6-192000 Pro	250 000	192 TB	HW RAID6	18 x SATA Hot Swap	32	128 GB	Enterprise	2U	8.7 x 43.4 x 71.6	33.1
IFC-R5-2880SSD	Flowmon Collector R5-2880 SSD	400 000	2.88 TB	HW RAID5	4 x SATA Hot Swap	56	256 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6
IFC-R5-11400SSD	Flowmon Collector R5-11400 SSD	400 000	11.4 TB	HW RAID5	4 x SATA Hot Swap	56	256 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6
IFC-MU	Flowmon Collector – Master Unit	–	6 TB	HW RAID5	4 x SATA Hot Swap	32	64 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6
IFC-PU	Flowmon Collector – Proxy Unit	–	6 TB	HW RAID5	4 x SATA Hot Swap	32	64 GB	Enterprise	1U	4.3 x 43.4 x 69.3	17.6

<sup>1</sup> The maximum performance in flows per second (fps) can change depending on appliance settings and installed modules. The performance of **Flowmon Collector – Proxy Unit** represents volumes of flow data which can be received and distributed to all Slave units in Proxy Group. Proxy Units does not process received flow data.

<sup>2</sup> Number of processor cores with Hyper Threading.

**Enterprise** version of remote control in addition includes dedicated network interface and virtual console.

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### Hardware Appliances – Operating conditions

P/N	Model	PSU		Continuous Operation		Expanded Operation <sup>2</sup>		Power Consumption		Heat Dissipation (max.)
		Power	Hot Swap	Temperature	Relative Humidity <sup>1</sup>	Temperature	Relative Humidity <sup>1</sup>	CPU Idle	CPU max	
IFC-R5-1000	Flowmon Collector R5-1000	250 W	no	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	94 W	184 W	1039 BTU/h
IFC-R5-2000	Flowmon Collector R5-2000	250 W	no	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	94 W	184 W	1039 BTU/h
IFC-R5-3000PRO	Flowmon Collector R5-3000 Pro	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	130 W	303 W	2559 BTU/h
IFC-R10-4000PRO	Flowmon Collector R10-4000 Pro	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	130 W	303 W	2559 BTU/h
IFC-R5-6000PRO	Flowmon Collector R5-6000 Pro	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	130 W	303 W	2559 BTU/h
IFC-R5-12000PRO	Flowmon Collector R5-12000 Pro	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	144 W	357 W	2559 BTU/h
IFC-R10-16000PRO	Flowmon Collector R10-16000 Pro	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	144 W	357 W	2559 BTU/h
IFC-R5-24000PRO	Flowmon Collector R5-24000 Pro	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	144 W	357 W	2559 BTU/h
IFC-R6-48000PRO	Flowmon Collector R6-48000 Pro	2 x 1100 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	180 W	351 W	4100 BTU/h
IFC-R6-96000PRO	Flowmon Collector R6-96000 Pro	2 x 1100 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	358 W	445 W	4100 BTU/h
IFC-R6-192000PRO	Flowmon Collector R6-192000 Pro	2 x 1100 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	403 W	494 W	4100 BTU/h
IFC-R5-2880SSD	Flowmon Collector R5-2880 SSD	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	144 W	357 W	2559 BTU/h
IFC-R5-11400SSD	Flowmon Collector R5-11400 SSD	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	144 W	357 W	2559 BTU/h
IFC-MU	Flowmon Collector – Master Unit	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	130 W	303 W	2559 BTU/h
IFC-PU	Flowmon Collector – Proxy Unit	2 x 550 W	yes	10°C + 35°C	10% + 80% at 29°C	5°C + 40°C	5% + 85% at 29°C	130 W	303 W	2559 BTU/h

<sup>1</sup> Mentioned temperature is max dew point temperature.

<sup>2</sup> When operating in the expanded temperature range, system performance may be impacted. Device can work in this condition for up to 1% of annual operating hours.

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### Virtual Appliances

P/N	Model	Performance (fps) <sup>1</sup>	Storage Capacity	VMware ESXi	Windows Hyper-V	KVM	Minimum Configuration
IFC-500-VA	Flowmon Collector 500 Virtual Appliance	up to 75 000	0.5 TB	5.5 and higher	2012 R2 and higher	KVM 3.10.0 and higher QEMU 1.5.3 and higher libvirt 4.5.0 and higher	2 CPU cores, 8 GB RAM, 500 IOPS
IFC-1000-VA	Flowmon Collector 1000 Virtual Appliance	up to 75 000	1 TB				2 CPU cores, 8 GB RAM, 500 IOPS
IFC-2000-VA	Flowmon Collector 2000 Virtual Appliance	up to 75 000	2 TB				2 CPU cores, 8 GB RAM, 500 IOPS
IFC-3000-VA	Flowmon Collector 3000 Virtual Appliance	up to 150 000	3 TB				4 CPU cores, 8 GB RAM, 1000 IOPS
IFC-6000-VA	Flowmon Collector 6000 Virtual Appliance	up to 150 000	6 TB				4 CPU cores, 8 GB RAM, 1000 IOPS
IFC-12000-VA	Flowmon Collector 12000 Virtual Appliance	up to 200 000	12 TB				8 CPU cores, 16 GB RAM, 2000 IOPS
IFC-24000-VA	Flowmon Collector 24000 Virtual Appliance	up to 200 000	24 TB				8 CPU cores, 16 GB RAM, 2000 IOPS
IFC-48000-VA	Flowmon Collector 48000 Virtual Appliance	up to 200 000	48 TB				8 CPU cores, 16 GB RAM, 2000 IOPS
IFC-64000-VA	Flowmon Collector 64000 Virtual Appliance	up to 200 000	64 TB				8 CPU cores, 16 GB RAM, 2000 IOPS
IFC-VA-MU	Flowmon Collector VA – Master Unit	–	6 TB	5.5 and higher	2012 R2 and higher	KVM 3.10.0 and higher QEMU 1.5.3 and higher libvirt 4.5.0 and higher	4 CPU cores, 8 GB RAM, 1000 IOPS
IFC-VA-PU	Flowmon Collector VA – Proxy Unit	–	6 TB				4 CPU cores, 8 GB RAM, 1000 IOPS

<sup>1</sup> The maximum performance in flows per second (fps) can change depending on appliance settings and installed modules. Maximal performance can be achieved by allocating sufficient amount of hardware resources according to hardware collector specification including sufficient storage performance.

VMware and Hyper-V virtual environments limit maximum storage capacity to 64 TB.