



SMART Questionnaire

Fields marked with * are mandatory.

Introduction

Dear Sir or Madam,

We have been tasked by the European Commission's DG CONNECT to gain a detailed understanding of the different measurement options available to measure and monitor the European Internet. To do this, as part of SMART study 2012/0046, I would like to invite you to fill out this questionnaire. From your inputs, we will develop a gap analysis which will clearly identify the strengths and drawbacks of the current measurement infrastructure state of the art and their impact -- from end-user capabilities to policies and regulation.

In turn, such gap analysis will serve as a guidance to the Commission for the design of the future research programs in the area.

We hope you can help us in this very important task and thank you very much for your time. It takes less than ten minutes to fill out the entire questionnaire.

Sincerely

The SMART study team.

<http://internet-monitoring-study.eu/>

Questions

Please contribute to the SMART Study on "European Internet Traffic: Monitoring Tools and Analysis" by providing the following basic data about your measurement options. Your contribution will be used to find gaps in monitoring tools in EU networks. It would not take you more than 10 minutes.

Information about your measurement options

We define a measurement option as the set of resources (e.g. platform, system, probe, etc.) used to provide network measurements.

Measurement option data (I)

Please provide the NAME of the measurement option*

Measurement option data (II)

Please provide any links to more information*

Measurement option data (III)

Please provide a contact name*

Measurement option data (IV)

Please provide a contact email*

Describe the measurement option

Please provide a one-paragraph explanation about the measurement option functionalities and main features*

Information about the network infrastructure where your measurement option is deployed

Network infrastructure (wired or wireless)

Please indicate if the measurement option is suitable for wired or wireless networks or both.*

- Wired
- Wired overlay
- Wireless
- Testbed involves different wired and wireless technologies

Wired network infrastructure

Please briefly describe which technology for wired infrastructure (Core network (GMPLS, DWDM, etc.), access network (xDSL, FTTH, etc.), LAN (Ethernet, etc.)) the measurement option is suitable for:

Wireless network infrastructure

Please briefly describe which technology for wireless infrastructure (WiFi, WiMAX, 3G, LTE, etc.) the measurement option is suitable for:

Information about the availability of your measurement option

Is the measurement option public? (publicly available or restricted)

Please indicate if NDA or other formal agreement or membership is necessary*

- Yes, it is publicly available without membership
- No, an agreement or membership is necessary
- It is private for our organization

Is the measurement option public? (publicly available or restricted)

If the answer of the previous question is NO, please specify the types of agreement used.

Is the measurement option you are describing managed as a private business, a public undertaking, an academic program, or other?

Please elaborate about the management of the measurement option

Offering of the measurement option

If the measurement option can be accessed for measuring, please specify the target user:*

- Own use
- End users
- Researchers
- Other companies
- Administration
- The infrastructure cannot be accessed for measuring
- Other

Other offering

Information about the measurement types provided by your measurement option

Type of measurements performed

Please indicate if the measurement option performs active or passive measurements:*

- Passive
- Active
- Both

Type for measurements performed if PASSIVE

Is the measurement option recording flow records or raw packets or other?

- SNMP (MRTG)
- Flow records
- Packet traces
- Other

Other passive measurement type

Type for measurements performed if ACTIVE (I)

What type of active tests can be performed?

- Ping
- Traceroute
- Bandwidth or available bandwidth
- Other

Other active measurement type

Type for measurements performed if ACTIVE (II)

What is the maximum rate of the active tests? (please do not forget to include the units (packets/s, bit/s, etc.)

Measurement statistics

Can you describe what network characteristics are measured by which measurement options?

Information about the architecture of your measurement option

Number of nodes aprox (in the tens, hundreds, thousands)

Please provide an estimation of the number of measurement nodes, namely agents, which can perform a measurement*

- Tens
- Hundreds
- Thousands

Dedicated hardware or servers

Please indicate if the measurement option has any dedicated hardware (routers, servers, access points, base stations, etc)*

Geographical span (I)

Please provide the geographical coverage of the measurement option*

- Regional
- Country
- Continent
- World

Geographical span (II)

Please provide a description of the area of coverage (countries, "Europe", etc)*

Topological considerations

Please describe if the measurement option interconnects, federates or interoperates with other infrastructures*

Information about the data format provided by your measurement option

Is data anonymization performed?

Please indicate if data is anonymized or not*

- Yes
- No
- Data anonymization is not necessary

Standard data format (IPFIX, etc) (I)

Are data collected from measurements stored in a standard format? (IPFIX, PCAP)*

- Yes
- No

Standard data format (IPFIX, etc) (II)

If the answer to the previous question is YES, please indicate which standard format you follow

Standard data format (IPFIX, etc) (III)

In the answer to the previous question is NO please describe your data format and if possible provide a link

Miscellaneous questions

What processes and design decisions are in place to ensure the validity of measured results?

Please indicate how you ensure the validity of your results

Open source

Are the measurement methodologies open-source (e.g. the measurement software for a given test)? If yes, please point to the code repository