



FIArch Open Workshop on the Future Internet Architecture Design Principles

Open Discussion session

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Two related objectives:

1. To know your **vision of FI**
I will propose you some questions to clarify some aspect of your vision.
2. To know your **opinion on the design principles**
Are the identified principles suitable and complete wrt your vision of FI?

Every one of you have 4 cards.

Each card is associated to a FI question.

1. Write on each card:
 - your answer (only 1) to the associated question;
 - your comments on the principles with respect to that question.
2. I will collect your cards and ask to the invited experts to contrast their opinion with yours.

Question A



Ignoring the application layer, what in your opinion is the FI?

A1 – A global communication system

A2 – A global data management system

A3 – A global infrastructure for the creation and execution of any networked application

A4 – A global infrastructure for collaboration among people, appliances and applications

A5 – A global infrastructure for (human, hw, sw) service delivery and lifecycle management

A6 – ...

Question B



Applications need to distinguish identities: IoC (data vs. source), IoT (device vs. location), IoS (service instance vs. sw component vs. host), IoP (people vs. device), SemWeb (document vs. metadata). Will FI offer a common solution?

B1 – No common solution. The solution is application dependent. We cannot foresee all future applications.

B2 – Yes and the same mechanism should be used at any layer.

B3 – Yes, but only for the application layer.

B4 – ...

Question C



Do you think that FI architecture should define mechanisms to guarantee user privacy?

C1 – Yes, in the sense that ...

C2 – No, because ...

Question D



"The Web evolved into a powerful, ubiquitous tool because it was built on egalitarian principles [...]. Some of its most successful inhabitants have begun to chip away at its principles. Large social-networking sites are walling off information posted by their users from the rest of the Web. Wireless Internet providers are being tempted to slow traffic to sites with which they have not made deals. Governments—totalitarian and democratic alike—are monitoring people's online habits, endangering important human rights.

If we, the Web's users, allow these and other trends to proceed unchecked, the Web could be broken into fragmented islands."

(Tim Berners-Lee, "Long Live the Web: A Call for Continued Open Standards and Neutrality", Scientific American, November 2010)

Do you think this is just a political issue or the FI Architecture should take into account it?

D1 – I think internet neutrality is only a political issue

D2 – I think specific technical choices are needed to guarantee neutrality