HTML DEVICE ELEMENT

ADAM BERGKVIST, ERICSSON AB
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WHAT IT IS

› Initial UI discussions on public-device-api@w3.org
  – Toolbar buttons, …, Infobars, Device well
  – Conclusion: New element needed

› An HTML element representing a device selector
  – Lets the user grant a webpage permission to use a device in a secure way

› Example devices
  – Video camera
  – Microphone
  – …
HOW IT IS USED

<device type="media">

<video autoplay></video>
... myVideo.src = myStream.url;

myStream = myDevice.data;

myRecorder = myStream.record();
...
myFile = myRecorder.stop();
NEW POSSIBILITIES

› Upload video to a video blog without leaving the browser
› Add voice to a web based game or chat room
› Make calls from/to a web based telephony application
› Enable augmented reality in web applications
› …
PROTOTYPING @ ERICSSON LABS (1)

› Device element
  – UI in HTML/CSS (API to query media backend, insecure!)

› Stream API
  – Support for composed streams
  – Registry to map between URLs and media pipelines

› Media element extensions
  – Play Stream by URL
MediaStreamTransceiver

- No proposed API for sharing streams over the network at the time
- WebSocket used as transport

http://tinyurl.com/ERLabsDevice
SUMMARY

› The device element will enable a lot of new use cases
› More work remains to be done
› Use code and knowledge gained during prototyping work to contribute to open source projects and specification work