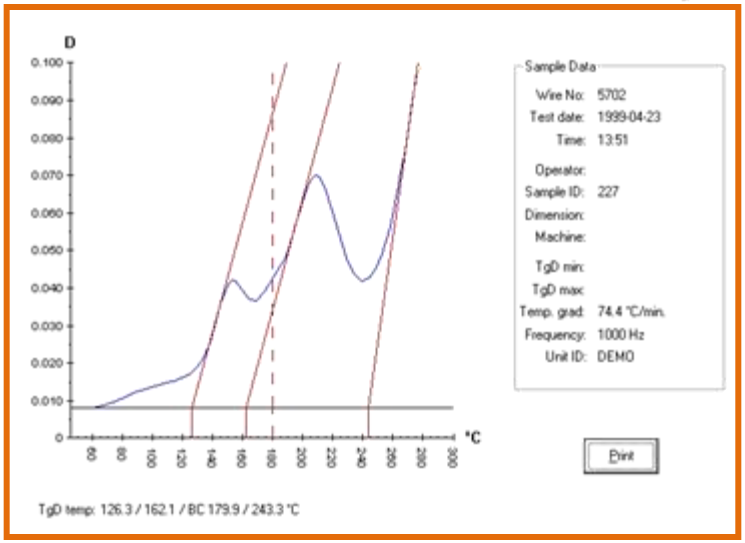
Presentation of DSE Test Solutions A/S

- More than 25 years in T&M business
- Location – Horsens Denmark
- ISO 9001-2008 certificeret
- 27 employees
  - Knowledge based organization
- 3 Business areas
  - Wire testers
  - Testers for the electronic industry
  - Biomass moisture testers

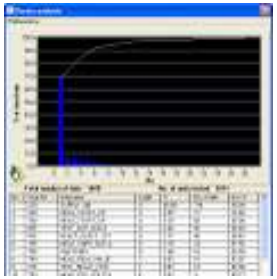
Tangent delta instruments

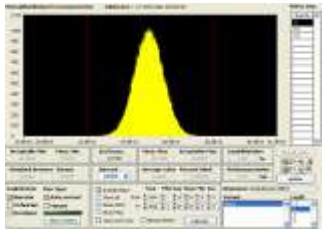


Testers for the electronic industry

- **Automated test execution**

- **Specification, development and implementation**
- **Manuel / automatic load**
- **Concept based**
- **Statistics Process Control**



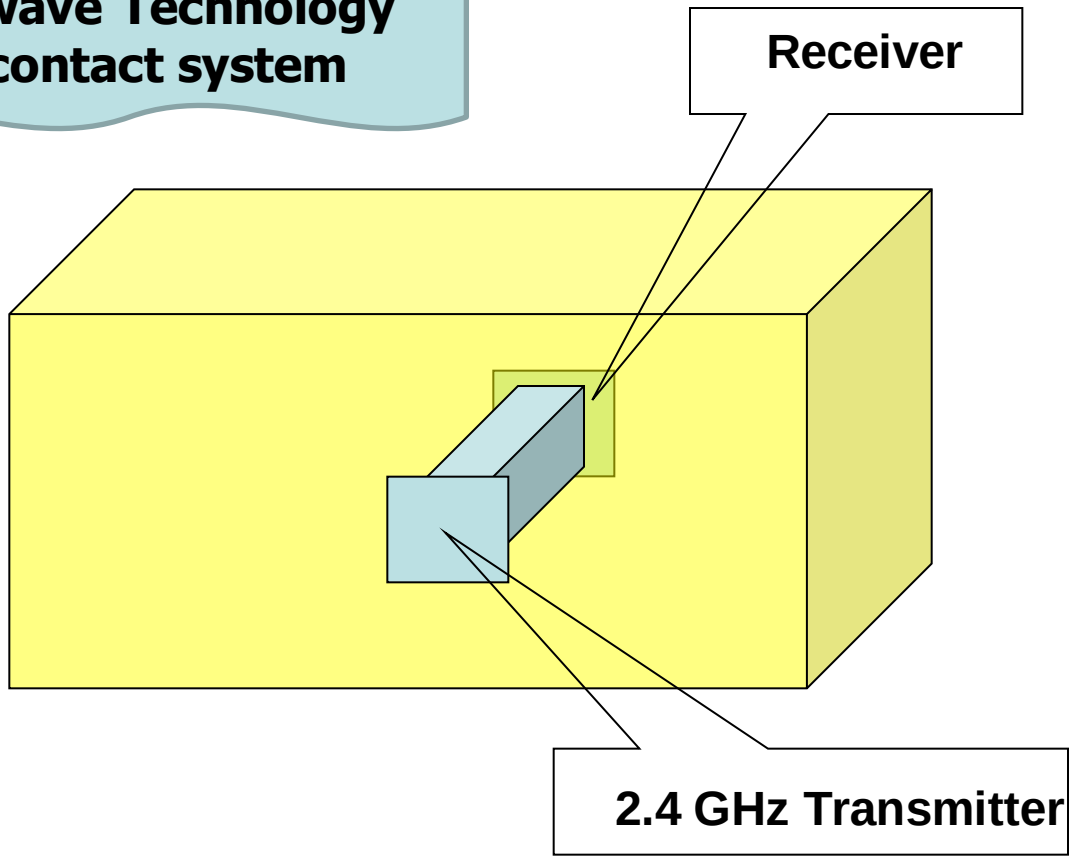


Straw moisture measurement from baling to Bio Energy

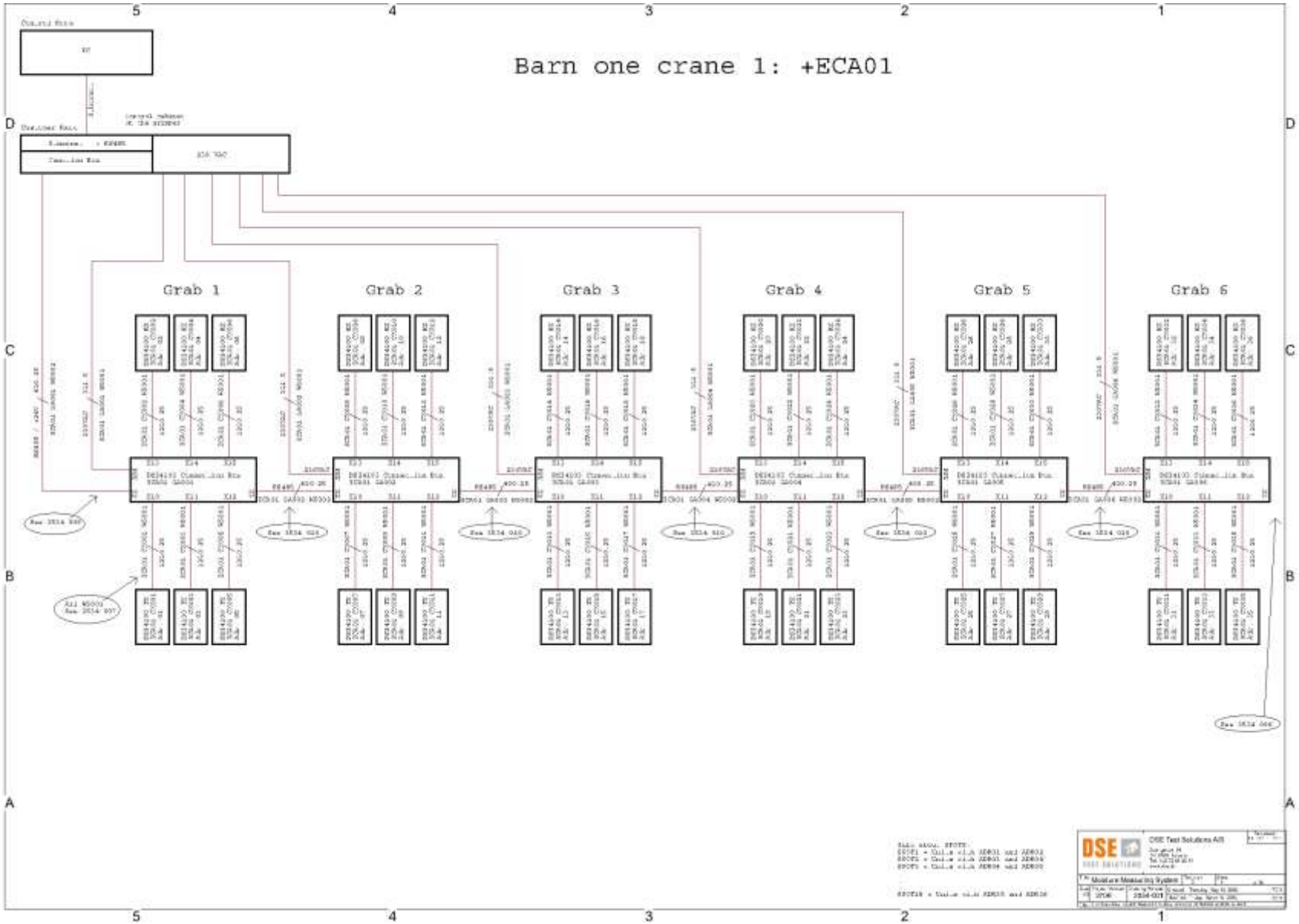
DSE4100 Crane handling system

Measuring Principle

- Microwave Technology
- None contact system



System overview

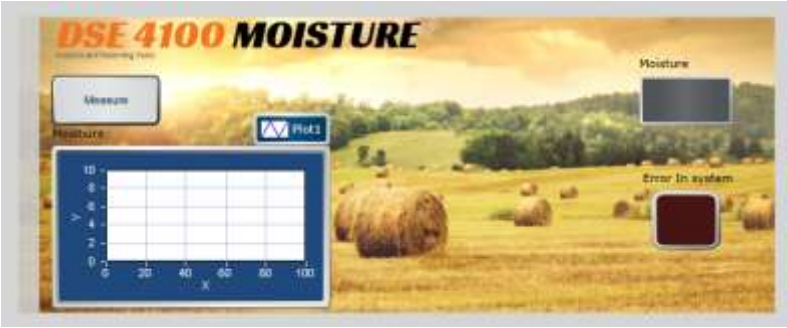


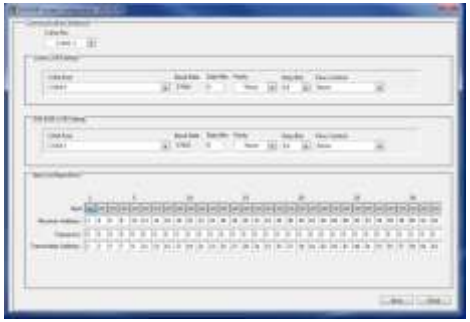
DSE Software Team

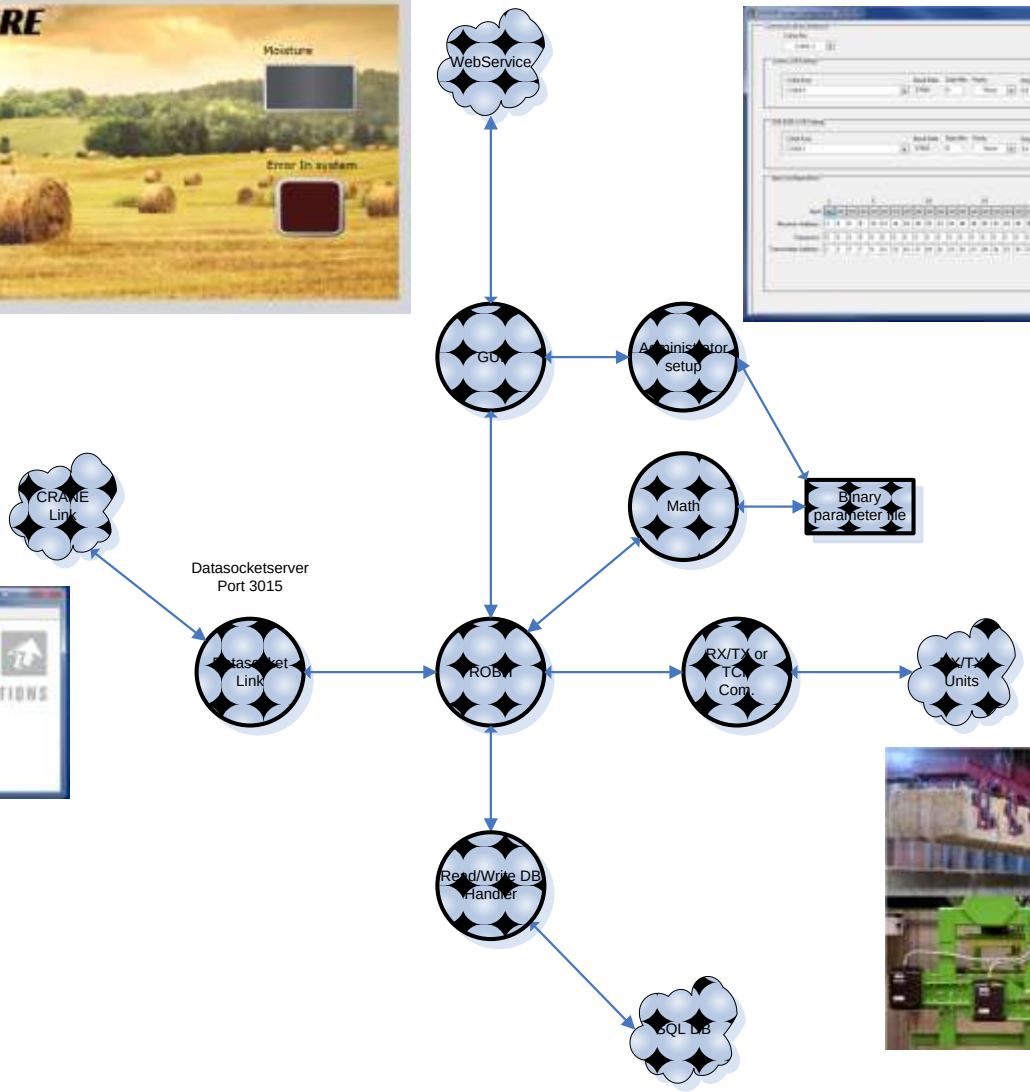
- Marck Holm Hansen
- Worked at DSE ~3.5 years
- Working together in a team of 4 certified software developers.

NATIONAL INSTRUMENTS LabVIEW CERTIFIED DEVELOPER

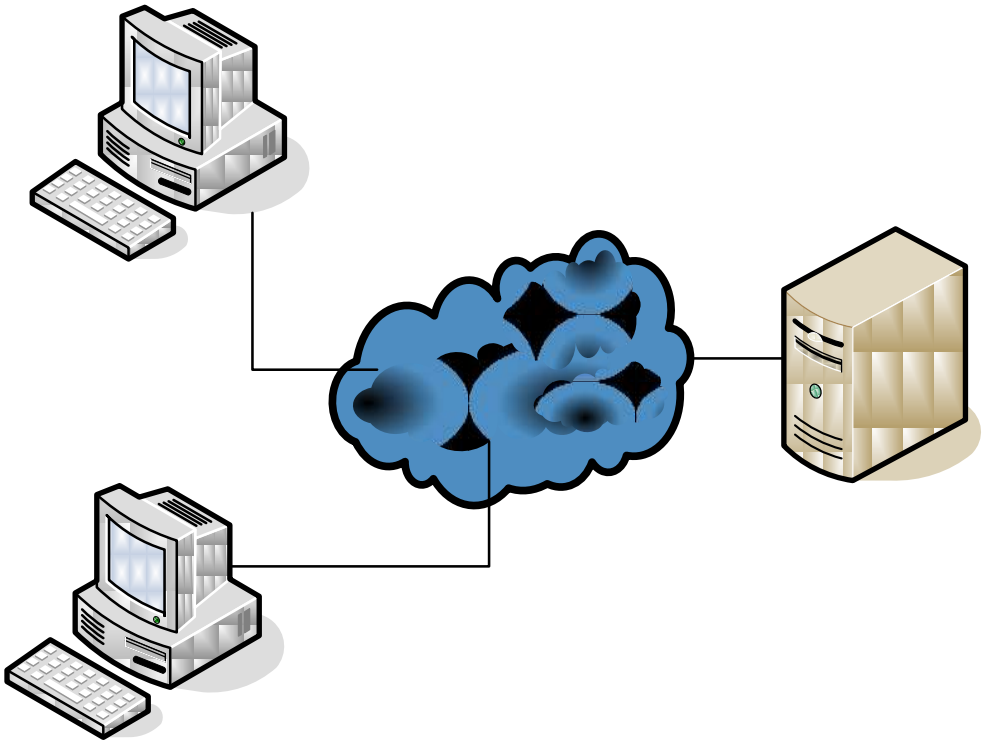
DSE 4100 MKII Software Design







What is Webservices



Ways of distributing a web application within LabVIEW

1

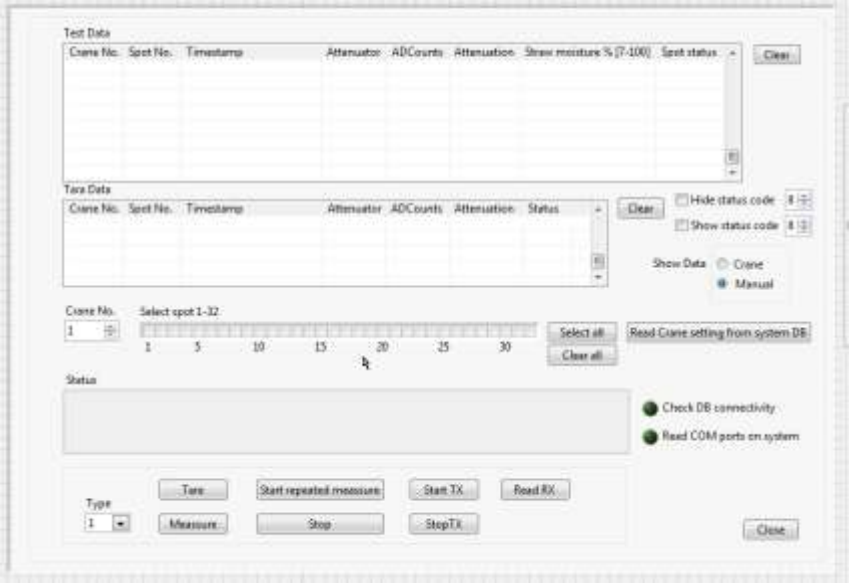
Remote Front Panel

2

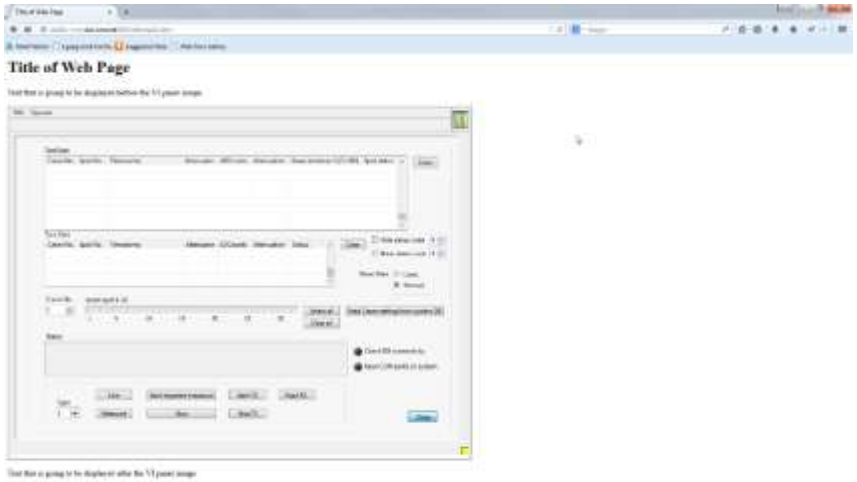
LabVIEW Web Service

1. Remote Front Panel

Front Panel in LabVIEW



Front Panel on Web

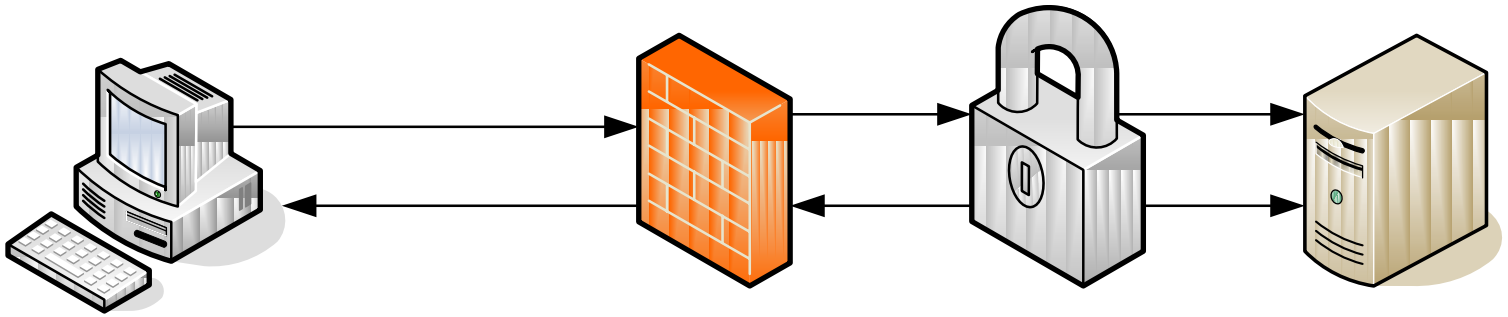


Remote Front Panel Demo

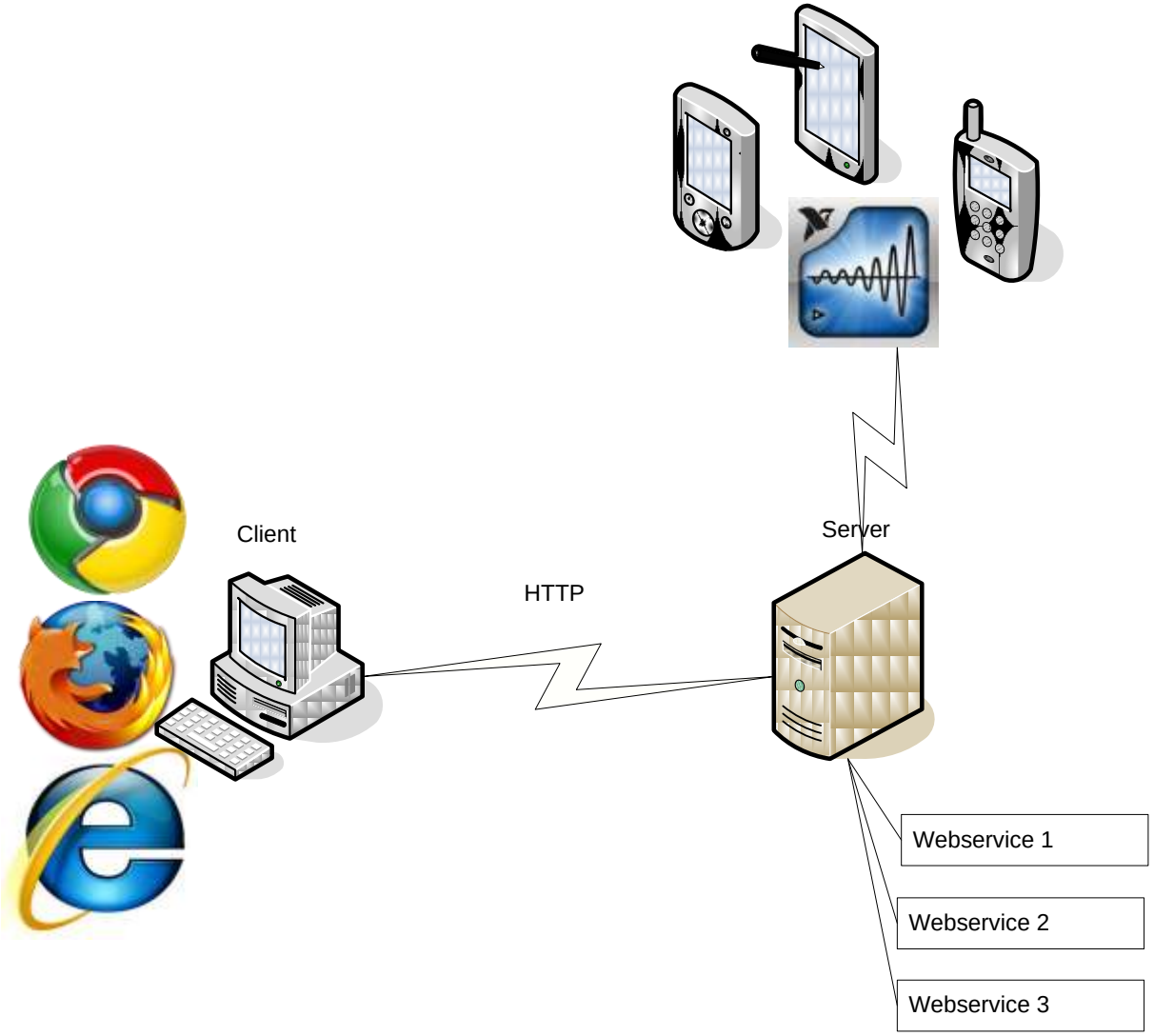
1. Considerations

- CPU Time
- Open/Close Connection **can't** be done programmatically
- Some front panel functions are disabled when the VI is under remote control.
- Required good network connection.

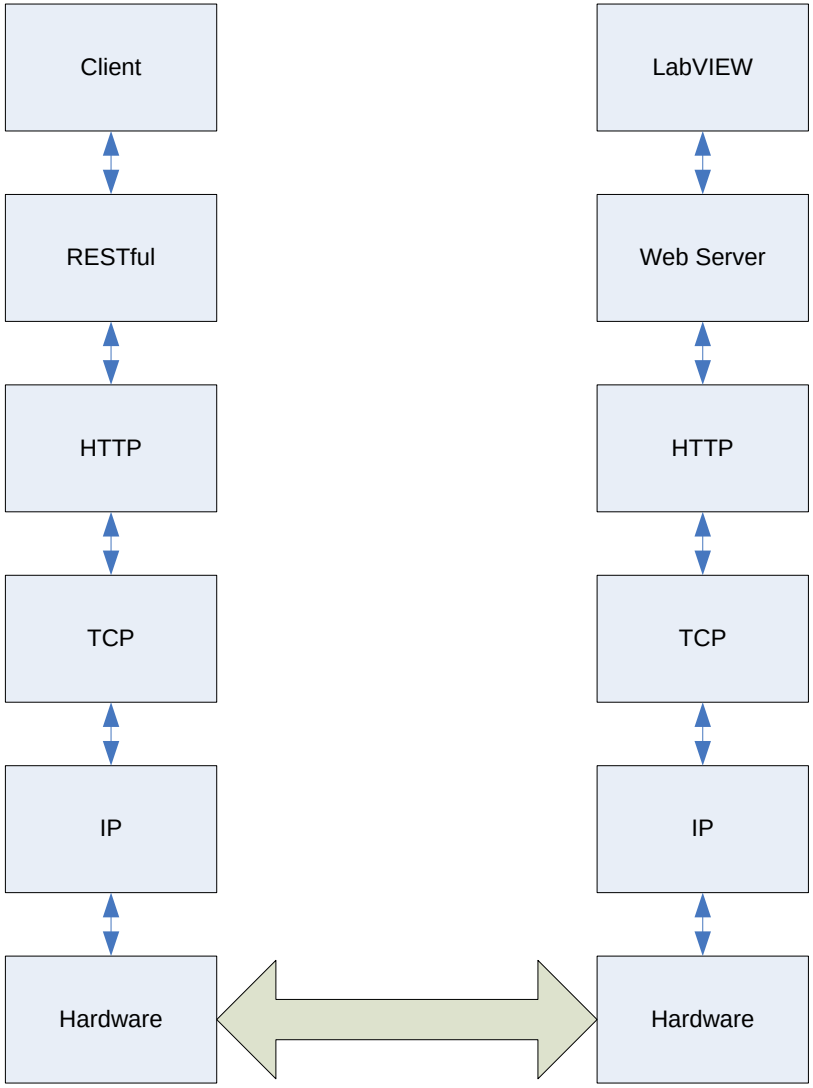
2 . Webservice structure



2. Webservice Communications



2. Webservice Protocol



Web Service Demo

2. Web Services (Server)

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