

Basic Framework and Canon's Login Protocol

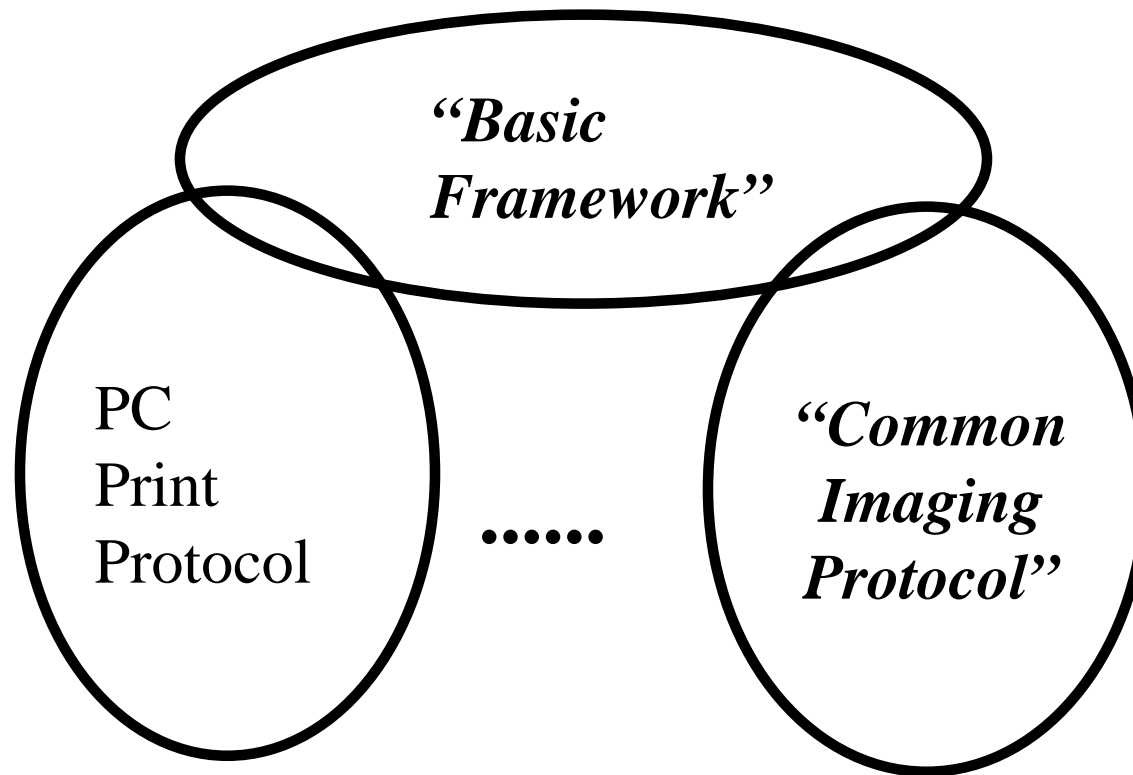
Canon Inc.

May 14, 1997

“Basic Framework”

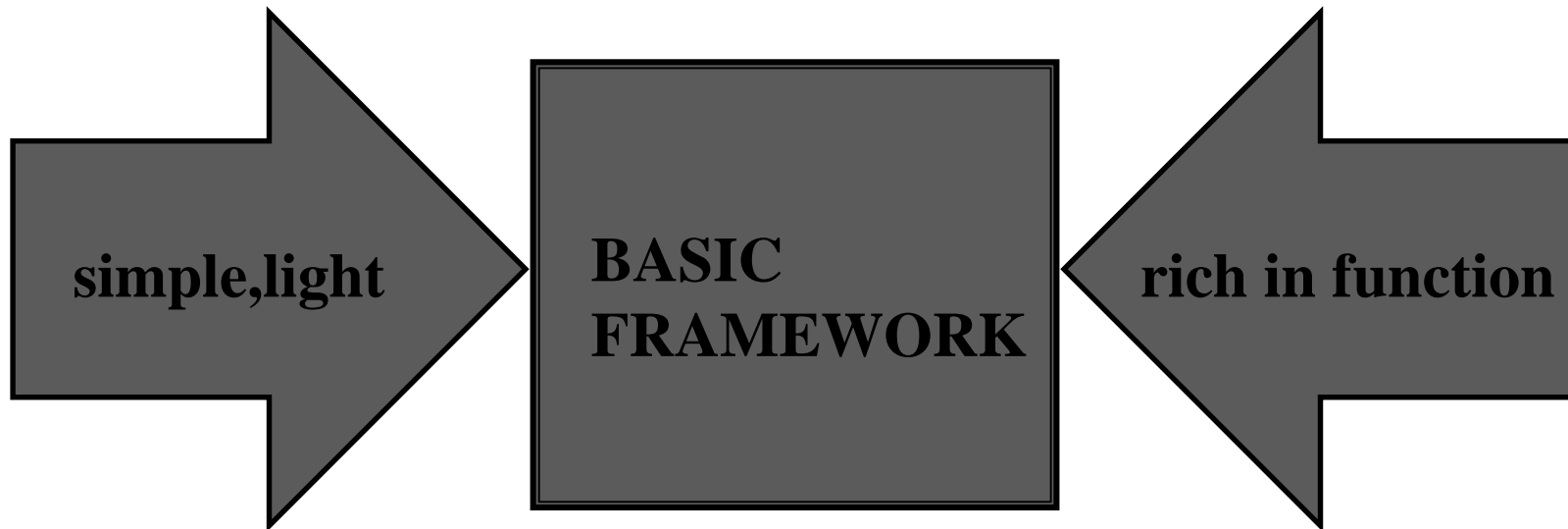
*** terms used defined in May14,'97 PWG mtg.**

Positioning of BASIC FRAMEWORK



* *Basic Framework*:
a method for multiple printing modes to co-exist in IEEE1394 environment.

EXPECTATIONS for BASIC FRAMEWORK



BASIC FRAMEWORK Functions

1.”datalink”(“transport”) Selection

2.”Device Discovery”

3.Direct Status Retrieval

- low level connection status
- prt status (ex.ON/OFF LINE,error....)

4.Reconnection?

5.Service Discovery?

*These functions should be accessible regardless of any mode at any time!

Canon's Login Protocol V0.2

document located at:

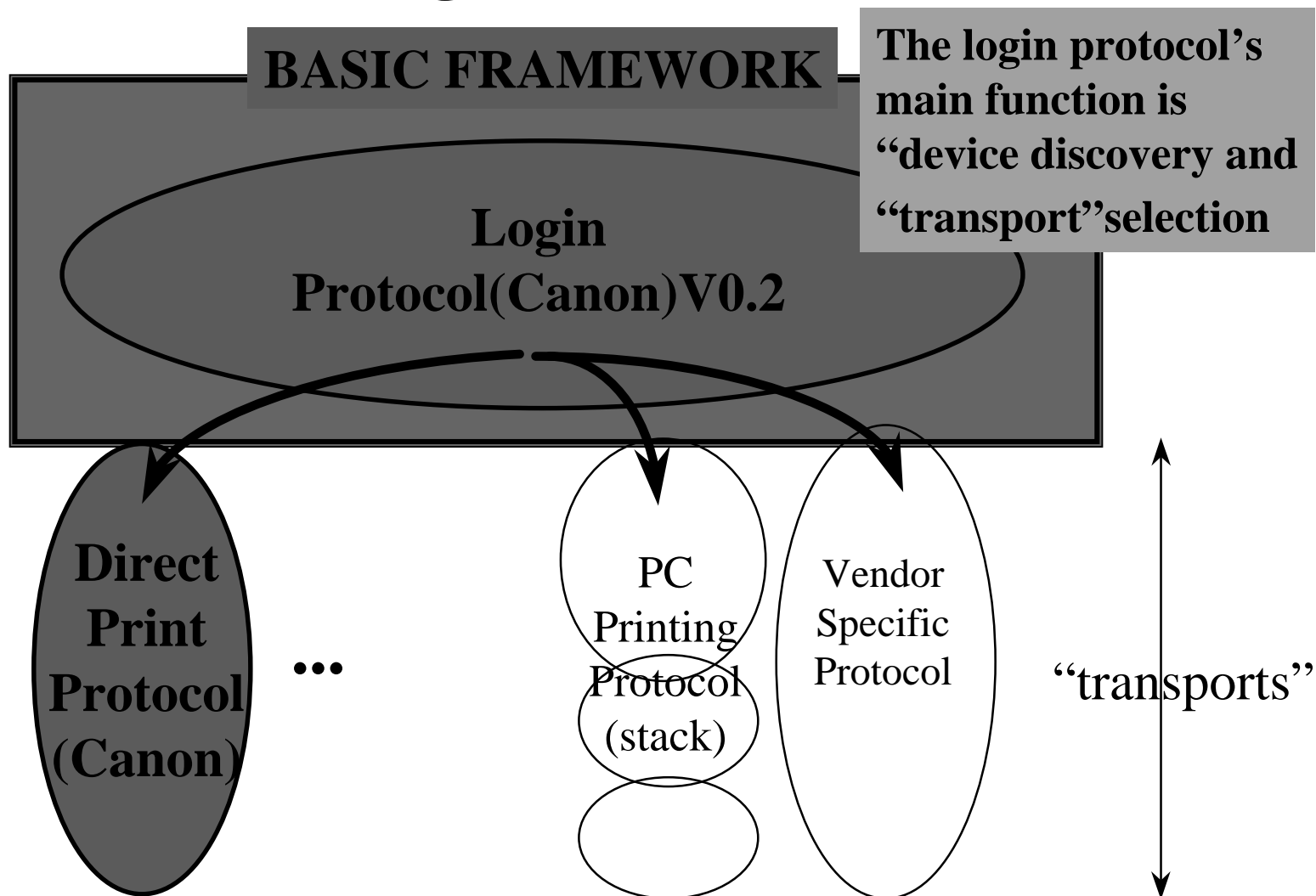
<http://www.pwg.org/p1394/proposal.htm>

*** terms used defined in May14,'97 PWG mtg.**

BASIC FRAMEWORK

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and Canon's Login Protocol V0.2 -1



BASIC FRAMEWORK

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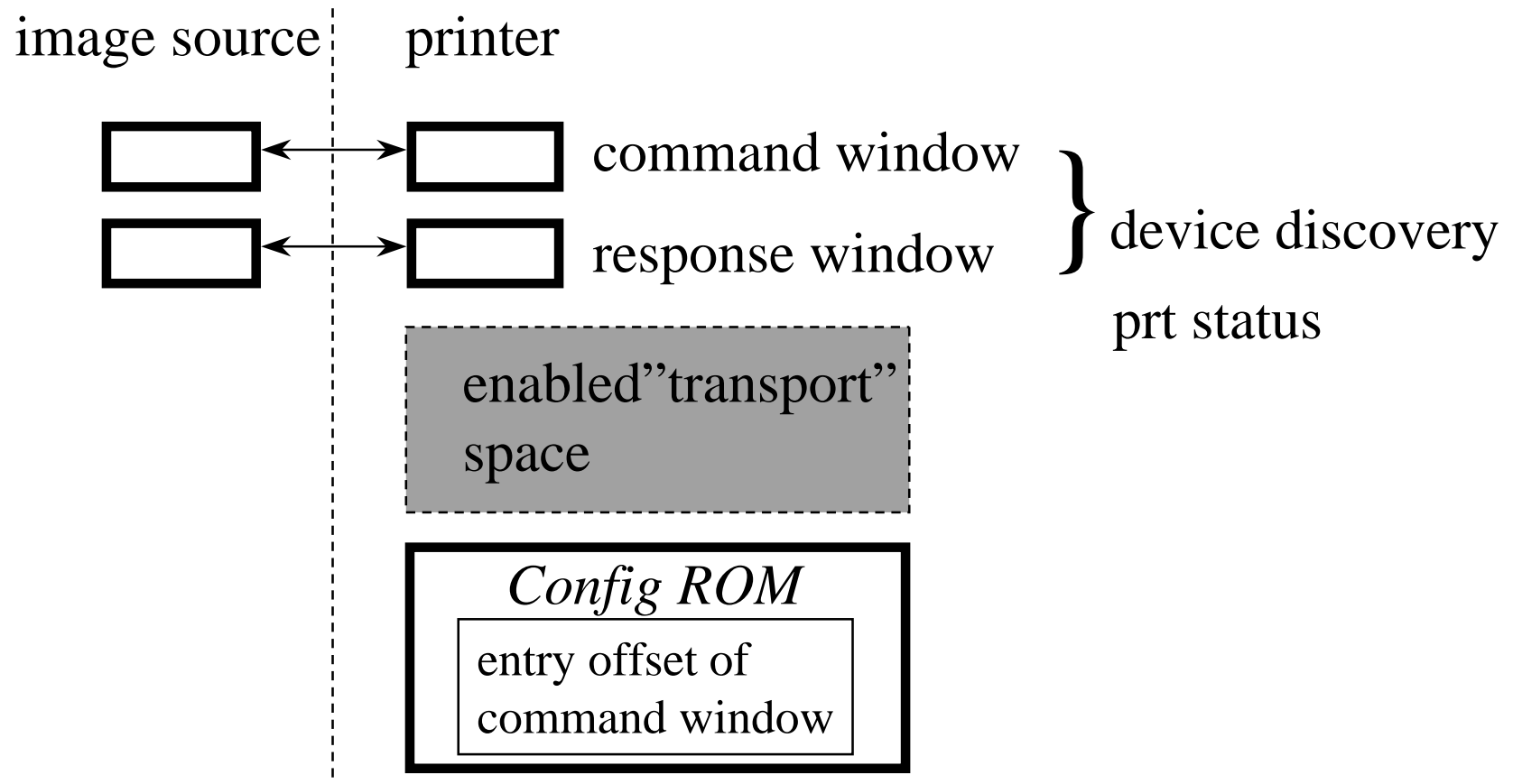
and Canon's Login Protocol V0.2 -2

framework functions	<i>CanonLogin Protocol Ver.0.2</i>	<i>V0.2 command</i>
base protocol selection	Retrieval of "data-link" entry	LOCK_UNLOCK
direct-status retrieval	minimal <u>basic printer status</u>	INQUIRE_STATUS
	low-level connection status	INQUIRE_LOCK
device discovery	info on device <u>discovery method</u>	entry in config.ROM
	info. on data-link (transport)selection is supplied.(layer directly above 1394?)	INQUIRE_LOCK
reconnection	Unsupported under the condition that it must be supported somewhere in the stack.	
service discovery	TBD	

Canon's Login Protocol V0.2

- Basic Architecture

...Command / Response window based



ISSUES TO BE WORKED ON : Canon's Login Protocol

1. Renaming the “Login Protocol”

- Current name is not related to it's function!

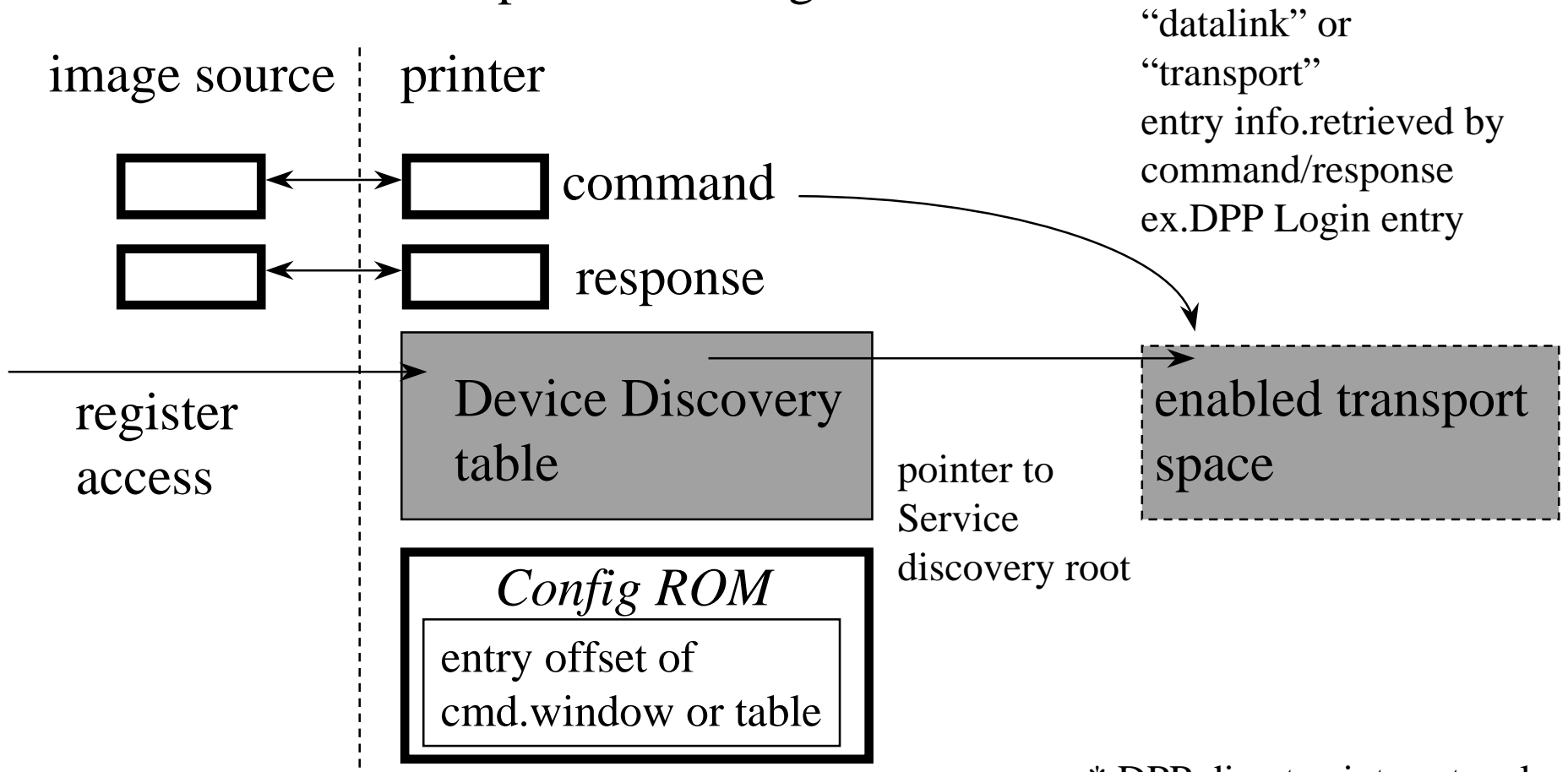
2. Defining, judging, and implementing on :

- service discovery
- device discovery
- “re-routing”
- reconnection
- direct-status retrieval

Canon's Login Protocol

- Device Discovery Expansion Example

...Command / Response and Register mixed



Thank You!....Comments to:

■ Canon Inc.

- email : pwg1394@cbs.canon.co.jp
- URL : <http://www.pwg.org/>

Thank You for your interest!