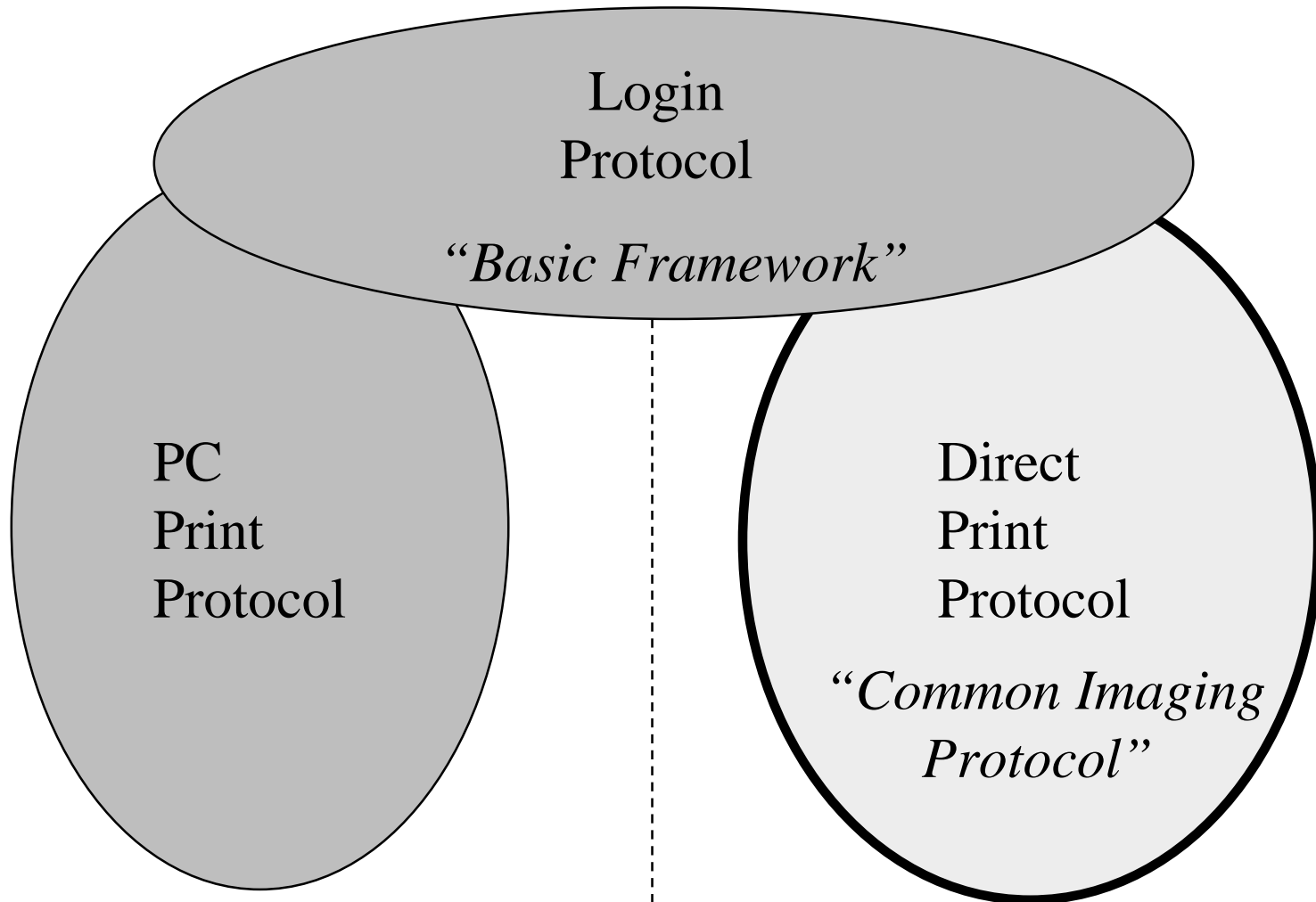


Direct Print Protocol

Canon Inc.

BJ Printing Technology Development

Canon's Idea for 1394 Printing



Direct Print Protocol (DPP)

- A common protocol for
 - **Any** DPP compliant image source to print to
 - **Any** DPP supporting printer
- simple!
- Expandable!
- image source friendly!

Direct Print Protocol

- A printing procedure protocol that defines:
 - **Minimum Requirements**
 - » image format support
 - » data flow model(s) and control(s) ...ISO / ASYNC
 - » basic printer control commands
 - **Rules for Expansion of**
 - » optional image format support
 - » printer (specific) control commands
- Will follow the previously proposed (by Canon)
Login Protocol

DPP Basic Architecture

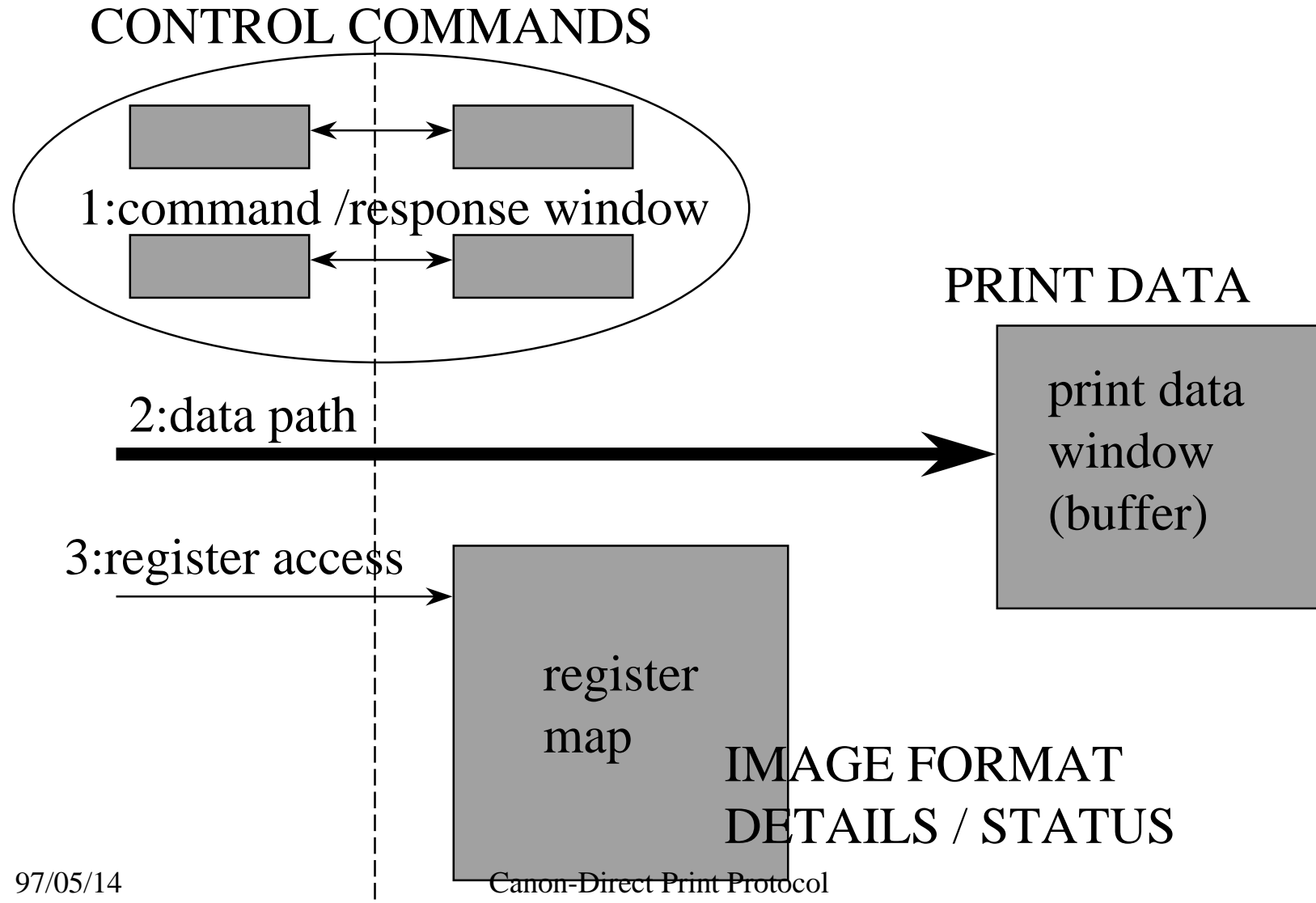


Image Format Candidates

■ Raw data format

- Raw RGB
- Raw YUV
- Raw YCbCr

■ High Level format

- EXIF(TIFF/ JPEG)
- TIFF/EP

* In any case, there will be format specific detail options.(size, bit order....)

Data Flow Model Candidates

- Isochronous Push model
- Asynch. “Block-burst” Push model
- Asynch. “(Mem. Bus) Large Buffer” Push model
- Asynch. Pull model
- Vendor specific model

Issues

- Data Flow model
 - Decision on minimum requirement model.
 - Optional model
- Image format
 - Decision on minimum requirement format.
 - Optional formats

Contact

■ Questions and Comments to :Canon Inc.

– email : pwg1394@cbs.canon.co.jp

■ Documents will be at : PWG

– URL : <http://www.pwg.org/>

Thank You for your interest!