

# Use Case BOF Minutes

## May 24, 2011

Meeting was called to order at approximately 1:00pm (EST) May 24, 2011.

### Attendees

Nancy Chen (Oki Data - call in)  
Justin Hutchins (Microsoft)  
Ira McDonald (High North/Samsung - call in)  
Joe Murdock (Sharp)  
Ron Nevo (Samsung)  
Glen Petrie (Epson - call in)  
Jim Russell (Xerox)  
Amir Shahindoust (Toshiba - call in)  
Michael St. Laurent (PrinterOn)  
Michael Sweet (Apple)  
Jerry Thrasher (Lexmark)  
Bill Wagner (TIC)  
Rick Yardumian (Canon)  
Pete Zehler (Xerox)

### Discussion

1. Best practices to get PWG-wide review and approval
  - Living document
2. Add scenarios which are built from use cases (or visa-versa)
3. Does not preclude use cases and scenarios specific to a spec
  - These could be rolled into future updates of the common document
4. Scenarios can reference Use Cases using well-known terms
  - Verb phrases
5. Use cases for out of scope/precondition stuff can be simplified?
  - Terminology for network connection, etc.
  - Other higher-level protocols need to be called out.
6. Express alternate flows in postconditions
7. Hierarchy: Scenarios -> Use Cases -> Preconditions/Terminology
8. Terminology:
  - Add network connectivity/topology terms
9. Mobile Phone User Prints to IPP Everywhere Printer
  - Precondition terminology:
    - Connected to Same Network
    - Printer is Visible to the Client
    - Client is Visible to the Printer (for status - future discussion)
  - Precondition as selection use case:
    - User discovers/pairs/installs IPP Everywhere printer
  - Not applicable:
    - User's mobile phone can print to IPP Everywhere devices
      - Use case is in the IPP Everywhere spec so the precondition is implied
      - May need to address optional spec requirements?
  - Failure modes (document format not supported, etc.) are postconditions, scenario can handle stringing use cases together for alternate flows
    - Document format errors -> cloud transform service scenarios/use cases
  - This is a scenario with several use cases.
  - Drop trigger
  - Transform/generation of print data
    - Separate use case?
    - Scenario can provide alternate flow for an optional transform into a printer-supported document format.
    - "that can provide print content" to avoid the requirement for generation of data
  - Alternate flow or separate scenarios for things like remote documents due to different network

- connectivity requirements (i.e. need printer and server to be visible)
  - Limit this to push printing
  - Steps 1-4 are UI, 5-6 are IPP Client/spooler
  - Step 2: Selection can be pre-installed/associated or discovered at print time; selection is a collection of use cases
  - Step 4: User presses "Print"
  - Static Printer: No infrastructure, "IP print queue"
  - Discovered Printer: Ad-hoc discovery protocol, printer provides discovery info, clients print direct to printer, e.g. Bonjour, UPNP
  - Directory Printer: Registered with service, client prints direct to printer, e.g. LDAP
  - Service Printer: Registered with and managed by service, client prints through service, e.g. Cloud Printing
  - UUID allows us to recognize whether a particular printer is visible from multiple sources (Static, Discovered, Directory, or Service)
  - Alternate flows:
    - 5a and 5b are postconditions of the print document use case, alternate flow for errors
    - 6b is a status monitoring use case
  - New steps 7-N to cover status monitoring and picking up the job from the printer
  - Common Exceptions Scenario with corresponding group of use cases for exceptions separate from status monitoring use cases
  - Postcondition: The job is printed, or ... one of the exceptions occurred to prevent it. (user isn't necessarily the one that picks on up)
  - Drop "The IPP everywhere printer is available to accept additional jobs".
  - Postcondition is the outcome of the use case or scenario
  - Separate use cases/scenarios for billing and accounting.
  - Billing: Renumeration for processing of a job
    - Add job-state-reasons keyword to indicate that the job is held or stopped for billing reasons
    - Pre-fighting jobs for quota/billing information?
  - Accounting: Collection of printer and service metrics involved with processing a job
10. Action: Mike to steal MFD use cases and requirements for common use cases

## Next Steps / Open Actions

- Do we want to do another Use Case BOF?
  - Yes
  - Continue discussions during Wednesday Cloud and IPP Everywhere sessions and possibly end of Thursdays IPP Everywhere session
  - Add use case discussion to both IPP and Cloud concalls and extend to 2 hours temporarily
- Which working group owns the document?
  - Working groups own their corresponding content
  - BOF-like session like Process Document for development
  - IPP and Cloud Imaging groups will use their concalls (temporarily) for discussion between F2F
  - Steering Committee will approach as a general project of the PWG
- Other document editors?
  - Working groups will supply chunks in Word using the established format to Mike for incorporation into the master document
- When do we publish?
  - Two versions initially: printing, one for multifunction
  - Q4 2011 for printing PWG Last Call
  - Q4 2012 for multifunction PWG Last Call
- Action: Mike to steal MFD use cases and requirements for common use cases