Feedback on Proposed Cloud Print Extensions

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GetAvailableJobs

- Don't like being able to get jobs for multiple Printers
  - Doesn't match existing SM or IPP Printer objects - the Client is always talking to a single service endpoint/target, not multiple services/targets
  - Existing model does not preclude having a Cloud Print Manager that fronts multiple output devices
    - 1 Cloud Print Manager with multiple output devices sharing the same Cloud Print Service, or
    - N Cloud Print Managers (implementation might merge these) each using their own Cloud Print Service
- But why have GetAvailableJobs at all?
  - Existing GetJobs operation provides all the info needed
  - Notifications tell you which printer needs to be polled

FetchDocument

- Need basic transform functionality
  - Request that the document data be transformed to a suitable format for printing, such as "I need PWG Raster data in 8-bit grayscale at 300dpi"
  - This is used by Google Cloud Print and other implementations
  - Also covers things such as copy generation, scaling, number-up, etc.
- Cloud Print Service advertises capabilities (FetchDocumentElementsSupported, FetchDocumentPWGRasterDocumentTypesSupported, FetchDocumentPWGRasterDocumentResolutionsSupported)
- Cloud Print Manager includes DocumentTicket in FetchDocument request
  - Includes additional elements for output format (DocumentFormat/Details, PWGRasterDocumentType, PWGRasterDocumentResolution)
  - Cloud Print Service will need to fetch data from Document URI
    - Do we define when that happens?
    - What about caching?

User Role "Printer"

- When characterizing access control policies, we often use "adminstrator", "operator", "user", and "system" as user roles
- For Cloud Print we need a new role for the printer/ Cloud Print Manager
  - Printers can fetch documents, users probably can't (although there is a use case for users viewing documents they have submitted...)
  - Most of the other Cloud Print operations are probably printer-only