Title	Mobile phone user prints to IPP Everywhere printer
Description	User has a mobile phone connected to the WiFi in her business. The user has a document to print prior to a meeting, and has it available from her phone. User initiates a print from the phone and chooses an IPP Everywhere printer that has been associated with the phone previously. The user configures the print job, and once the Printer determines that the settings are valid, the job is printed. The user picks up her job at the device.
Goal	User obtains a high quality print with good performance from their mobile phone
Preconditions	User's mobile phone is connected to the same LAN the printer is on User's mobile phone can print to IPP Everywhere devices <Use case: User discovers/pairs/installs IPP Everywhere printer>
Trigger	User initiates a print command from an application that can generate print content
Steps	1. User initiates a print command from an application that can generate print content 2. User chooses an available printer from the available devices 3. User configures the print job, setting options like duplexing, and media sizes 4. User submits the job 5. The system validates the print job using IPP 6. The system submits the job to the printer
Alternate flows	5a. The IPP printer could deem the job settings invalid and return the job to the user for correction. 5b. The IPP printer could deem the job settings invalid and correct them 6a. An error could be encountered, in which case the user would be notified by the system about how to correct the issue.
Postconditions	The IPP Everywhere printer has printed the job the user sent. The IPP everywhere printer is available to accept additional print jobs. <Use case: Billing> <Use case: Accounting>

Title:	Student Printing Homework at Friends House.
Description:	John, a high-school student, rushes out of the house on his way to his friend's (Steve) house and, then, to school. In less than 5 minutes he arrives at Steve house. Steve waves his history report at John to show him it is done and printed. John reaches in his backpack to realize he has forgotten his printed copy. John tells Steve he has a copy of his report on his cloud and could he print it at his house. Steve agrees. Steve ask John for his cloud user name and adds John as a 'friend' to his cloud aware printer. John promptly logs into his cloud account and finds his history report. Invoking a print request, John sees that Steve's printer has been added to this printer list. Selecting Steve's printer, John prints his report and they are both off to school.

Optional: Steve's system administrator (dad) does not want the 'friend's' list for the printer to be to long; so, Steve removes John from the 'friend's' list and John see the printer disappear from this printer list. |
| | |
| *Goal:* | To demonstrate rapid but temporary access to cloud print services and the necessary administrative services |
| *Actors:* | John, using his cloud account and cloud print service
Steve, using his cloud account and cloud printing administrative service |
| | |
| *Assumptions/ Preconditions:* | 1. John and Steve both have cloud repositories accounts.
2. Steve has at least one cloud print account
3. Steve has some administrative privileges |

Process: **_Main:_**	1. Steve logs in to his cloud account 2. Steve adds John to the 'friend's' list for his home printer 3. The cloud system updates the 'friend' access list. 4. The cloud system add the Steve's home printer to John's printer list. 1. John logs in to his cloud account 2. John selects his document and request a print. 3. John selects Steve's home printer from his printer list. 4. The cloud system presents a print dialog using the capabilities for Steve's home printer. 5. John sets his print options and presses the print button. 6. The print dialog generates a Print-Job-Ticket and records the URI for Steve's document in the Print-Job-Ticket. 7. The print dialog passes the print request to the cloud repository print client manager. 8. The cloud repository print client manager checks the status of Steve's printer. 9. The cloud repository print client manager sends the print job to Steve's printer. 10. The cloud repository print client manager receive a print-complete. 11. The cloud repository print client manager updates John's print status. 12. The cloud repository print client manager removes the job from its queue.
Process: **_Alternative:_**	1. Steve logs in to his cloud account 2. Steve removes John from Steve's home printer 'friend's' list. 3. The cloud system remove Steve's printer from John's printer list.
Frequency:	Random; 10 or less events in one year period.
Features:	Rapid and temporary access to a cloud aware printer. Administrate rights at a level other than user and administrator.
Issues:	None. Capabilities are within scope of todays or proposed solutions.

Title	User of standard application wants to print checks at offsite location.
Description	The treasurer of a small training company, that is holding a meeting and seminar at a resort, needs to print out 20 checks for training personnel. He uses QuickBooks ® for accounting and to print out checks, and he updates the information in this program to reflect latest hours worked, bonuses, etc. The resort site does have 802.11 and does have a printer available for guest use (for a fee). The treasurer has check blanks.
Goal	Treasurer can submit proper checks with current balances to personnel during closing ceremony at remote site using the same accounting software he uses to track all expenses.
Preconditions	TBD – to an extent, this is part of solution since at the present time site does not have advanced capabilities that we which to define. However, we can note that security is one of many concerns.
Trigger	User loads check blanks on printer and initiates a print command from an application that can generate print content
Steps	1. User updates his accounting grogram, determines what checks need to be printed and insures that checks amounts, payees and signature are correct. 2. User locates an available printer 3. User ensures that printer is free, locks out other jobs and loads the check blanks. 4. User initiates check printing. (put in a validate job operation?) 5. The system (or the application) submits the job to the printer. 6. Checks are printed and immediately taken off the printer. 7. Cost of printing (not including media) is calculated and sent to treasurer's account.
Alternate flows	??
Postconditions	The accounting program properly reflects all outstanding checks. The treasurer has a stack of properly printed checks. The Treasurer will be charged for the Us of the printer.

Title	User wants to print specially formatted text on printer at resort site
Description	At a seminar located at a country resort, a factotum and general gofer has been asked to provide 80 sets of ten keywords/phrases, clearly printed on 2-inch by 1-inch paper slips for use in a get acquainted exercise. Costs are to be minimized. Gofer has a laptop with a word processer program. Resort has a wi-fi network available to users and a networked MFDat the business centre. Attendant at business center will charge for any printed sheets removed from premises
Goal	Gofer must provide paper slips of the specified size with legible text, promptly and cheaply
Preconditions	TBD – to an extent, this is part of solution since at the present time site does not have advanced capabilities that we which to define. However, we can note that security is one of many concerns.
Trigger	Gofer uses word processer program to lay out the phrases in a table format, adjusting margins, font size and spacing to use landscape format to print five phrases per line and eight lines of phrases per page. The required 80 phrases should be handled in two pages.
Steps	1. Gofer creates the page descriptions on his word processor program. 2. Gofer locates an available printer 3. User initiates printing. (put in a validate job operation?) 4. The system (or the application) submits the job to the printer. 5. Two sheets are printed with 80 phrases. User must then use scissors to cut part
Alternate flows	??
Postconditions	Gofer will be charged for printing two single sided sheets.

Title	Doctor in off hours sends a prescription to a drug store for a patient
Description	Doctor has a mobile device and wants to send a prescription to a particular drug store for a patient in off hours. The Doctor selects a target printer based on the Cloud Provider's information regarding the geographic location of the printer. The user configures the print job, and once the Cloud Provider determines that the settings are valid, the job is sent to the targeted device and printed. The third party receives the print job at the targeted printer.
Goal	User sends a hand written prescription print job from their mobile device to the geographically located printer through a Cloud Provider
Preconditions	User's mobile device is capable of interacting with a Cloud Provider supporting the IPP Everywhere protocol. User's mobile device supports prescription generation
Trigger	User initiates a print command from an application that can interface with a Cloud Provider, configure the print job parameters, and generate the target output formatted data
Steps	1. User initiates a print command from an application that can generate print content 2. User queries Cloud Provider for printers in a specific geographic location that supports the features needed for their print job. (example: prescription printing) 3. User chooses an available printer from the available devices 4. User configures the print job, setting options 5. User submits the job 6. The mobile device validates the print job through the Cloud Provider using IPP Everywhere to talk to the Cloud Provider 7. The mobile device submits the job to the Cloud Provider 8. The Cloud Provider submits the job to the target printer through IPP Everywhere 9. User gets confirmation of job submitted/completed by the Cloud Provider

Alternate flows	6a. The Cloud Provider could deem the job settings invalid and return the job to the user for correction. 6b. The IPP Everywhere printer could deem the job settings invalid and return the job to the Cloud Provider who in turn returns the job to the user for correction 9a. An error could be encountered, in which case the user would be notified by the Cloud Provider on how to proceed.
Post conditions	The IPP Everywhere printer has printed the job the user sent. The IPP everywhere printer is available to accept additional print jobs.

Title	Digital camera user sends photo prints to a third party using a geographically located IPP Everywhere printer through a Cloud Provider
Description	User has a digital camera connected to a mobile device and wants to send a photograph from it to someone in a different geographic location. The user selects a target printer based on the Cloud Provider's information regarding geographic location, capabilities/features, and pricing. The user configures the print job, and once the Cloud Provider determines that the settings are valid, the job is sent to the targeted device and printed. The third party picks up their job at the targeted printer.
Goal	User sends a high quality photograph print job from their mobile device to the geographically located printer through a Cloud Provider
Preconditions	User's digital camera is connected to a mobile device capable of interacting with a Cloud Provider supporting the IPP Everywhere protocol.
Trigger	User initiates a print command from an application that can interface with a Cloud Provider, configure the print job parameters, and generate the target output formatted data
Steps	1. User initiates a print command from an application that can generate print content 2. User queries Cloud Provider for printers in a specific geographic location that supports the features needed for their print job. (example: paper size, resolution, paper type (matte, glossy), layout, price) 3. User chooses an available printer from the available devices 4. User configures the print job, setting options 5. User submits the job 6. The mobile device validates the print job through the Cloud Provider using IPP Everywhere to talk to the Cloud Provider 7. The mobile device submits the job to the Cloud Provider 8. The Cloud Provider submits the job to the target printer through IPP Everywhere 9. User gets confirmation of job submitted/completed by the Cloud Provider

Alternate flows	6a. The Cloud Provider could deem the job settings invalid and return the job to the user for correction. 6b. The IPP Everywhere printer could deem the job settings invalid and return the job to the Cloud Provider who in turn returns the job to the user for correction 9a. An error could be encountered, in which case the user would be notified by the Cloud Provider on how to proceed.
Post conditions	The IPP Everywhere printer has printed the job the user sent. The IPP everywhere printer is available to accept additional print jobs.