**Conversation trail when printing from Notes**

The following test was to print a note to the XPS printer. When the XPS dialog came up it was cancelled. This caused the iPad to display an error and ask if reprinting should be tried. The reprint was then saved.

|  |  |  |  |
| --- | --- | --- | --- |
|  | *Operation-ID* | *ID* | *Other details* |
| → | Get-Printer-Attributes | 14 |  |
| ← | Successful-OK | 14 |  |
| → | Validate Job | 1 |  |
| ← | Successful-OK | 1 |  |
| → | Get-Printer-Attributes | 2 |  |
| ← | Successful-OK | 2 | printer-is-accepting-jobs: true printer-state-reasons: none |
| → | Print-Job | 3 |  |
| → | Get-Printer-Attributes | 4 |  |
| ← | Successful-OK | 4 | printer-state-reasons: none |
| → | Get-Jobs | 5 | requesting-user-name: guest my-jobs: true which-jobs: not-completed requested-attributes: job-id, job-state, job-name |
| ← | Server-Error-Internal-Error | 3 | status-message: "Unable to start printing" [IPP]  Dialog displayed on iPad: "An error occurred printing this document" |
| → | Validate-Job | 6 |  |
| ← | Successful-OK | 6 |  |
| → | Get-Printer-Attributes | 7 |  |
| ← | Successful-OK | 7 | printer-is-accepting-jobs: true printer-state-reasons: none |
| → | Print-Job | 8 |  |
| → | Get-Printer-Attributes | 9 |  |
| ← | Successful-OK | 9 | printer-state-reasons: none |
| → | Get-Jobs | 10 | requesting-user-name: guest my-jobs: true which-jobs: not-completed requested-attributes: job-id, job-state, job-name |
| → | Get-Printer-Attributes | 11 |  |
| ← | Successful-OK | 11 | printer-state-reasons: none |
| → | Get-Jobs | 12 | requesting-user-name: guest my-jobs: true which-jobs: not-completed requested-attributes: job-id, job-state, job-name |
| ← | Successful-OK | 8 | job-attributes: job-id: 8 job-uri: .... job-state: Processing job-state-reasons: job-printing |
| → | Get-Job-Attributes | 13 | requested-attributes: job-media-sheets-completed job-impressions-completed job-state job-state-reasons |
| ← | Successful-OK | 13 | job-attributes: job-id: 8 job-uri: .... job-state: Processing (5) job-state-reasons: job-printing |
| → | Get-Job-Attributes | 14 | requested-attributes: job-media-sheets-completed job-impressions-completed job-state job-state-reasons |
| ← | Successful-OK | 14 | job-attributes: job-id: 8 job-uri: .... job-state: Completed (9) job-state-reasons: job-completed-succesfully |

**When printing from Safari (large document)**

The pop-up displaying "Printing page X of X" worked on solely the rate at which the document was transferred to fingerprint.

I emulated the job taking a long time to print by delaying the saving of the XPS file. During all this time the iPad printer centre showed "Printing 1 of 24...". The status stayed like that until the job was removed approximately 10 seconds after saving the document.

During all this time the iPad was making the Get-Job-Attributes requests where it was asking for the number of sheets completed, but the fingerprint software just returned the status that the job was processing, until it finally completed, i.e.

|  |  |  |  |
| --- | --- | --- | --- |
|  | *Operation-ID* | *ID* | *Other details* |

|  |  |  |  |
| --- | --- | --- | --- |
| → | Get-Job-Attributes | *n* | requested-attributes: job-media-sheets-completed job-impressions-completed job-state job-state-reasons |
| ← | Successful-OK | *n* | job-attributes: job-id: 8 job-uri: .... job-state: Processing (5) job-state-reasons: job-printing |
| … | … | *…* | … |

|  |  |  |  |
| --- | --- | --- | --- |
| → | Get-Job-Attributes | *m* | requested-attributes: job-media-sheets-completed job-impressions-completed job-state job-state-reasons |
| ← | Successful-OK | *m* | job-attributes: job-id: 8 job-uri: .... job-state: Completed (9) job-state-reasons: job-completed-succesfully |

**Miscellaneous notes**

1. The hostname doesn't have to be a DNS valid hostname, e.g:  
     
   \_universal.\_sub.\_ipp.\_tcp.local: type PTR, class IN,  
   \356\200\214Open On My PC @ NODDYBOX.\_ipp.\_tcp.local
2. \_universal.subs.\_ipps.\_tcp.local is also searched – perhaps for CUPS over SSL?