



12/18/2015

To Whom It May Concern:

I hereby appoint Ryan Beach to sign letters and applications for any filings with regulatory agencies on our behalf, and to receive and exchange data between our company, the agents company and the agency in connection with certification for any products that our company owns or manufactures.

Sincerely,

A handwritten signature in black ink, appearing to read "Juan Abreu", written in a cursive style.

Juan Abreu
Engineering Manager
Spirent Communications, Inc.