

REDACTED - FOR PUBLIC INSPECTION

**Before the
Federal Communications Commission
Washington, D.C. 20554**

In the Matter of)
)
Applications of Cricket License Company, LLC,)
et al., Leap Wireless International, Inc., and)
AT&T Inc. for Consent To Transfer Control of) WT Docket No. 13-193
Authorizations)
)
Application of Cricket License Company, LLC)
And Leap Licenseco Inc. for Consent to)
Assignment of Authorization)

**SUPPLEMENTAL RESPONSE OF AT&T INC. TO
INFORMATION AND DISCOVERY REQUEST DATED NOVEMBER 8, 2013**

December 17, 2013

**SUPPLEMENTAL RESPONSE OF AT&T INC. TO
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3. REQUEST:

Provide, as of the date of this Request, polygons in an ESRI shapefile format representing geographic coverage in each relevant area for each mobile broadband network technology (e.g., GSM, EDGE, CDMA, EV-DO, EV-DO Rev. A, UMTS, HSPA, HSPA+, LTE) deployed in each frequency band (e.g., 700 MHz, Cellular, AWS-1, PCS, BRS/EBS). Provide all assumptions, methodology (e.g., propagation, projection, field measurements), calculations (including link budgets), tools (e.g., predictive and field measurements) and data (e.g., terrain, morphology, buildings) used in the production of the polygons, and identify the propagation tool used, the propagation model used within that tool, including but not limited to, the coefficients used in the model and any additions, corrections or modifications made to the model.

RESPONSE:

With this Supplemental Response, AT&T is providing an additional Exhibit 3.3, which contains ESRI shape files depicting AT&T's nationwide geographic coverage for HSPA+ and LTE by frequency band as of November 1, 2013. As noted in the Initial Response, AT&T does not maintain HSPA+ and LTE coverage data by frequency band in the ordinary course of business. AT&T, thus, has had to alter its regular data extraction process and coverage mapping methodology to supply this information.

With respect to the LTE files provided in Exhibit 3.3, AT&T modified its ordinary course process for extracting LTE coverage data in order to segregate the data by frequency band. AT&T then was able to create ESRI shape files depicting LTE coverage by frequency band using the Forsk's Atoll propagation tool and the methodology described in AT&T's Initial Response to Specification 3. The LTE file naming conventions represent the following:

- **[BEGIN AT&T HIGHLY CONFIDENTIAL INFORMATION]**

[END AT&T HIGHLY CONFIDENTIAL INFORMATION]

With respect to the HSPA+ files provided in Exhibit 3.3, AT&T does not currently have all of the underlying data necessary to create ESRI shape files by frequency band using the Atoll propagation tool. AT&T has instead created such files in Exhibit 3.3 using the following alternative methodology:

Currently, GSM, UMTS and LTE sites are tracked in Atoll by AT&T engineers at the design center level.¹ Sites capable of offering HSPA+ service are not separately tracked in Atoll. To generate the HSPA+ footprint, AT&T enters into Atoll the list of HSPA+ sites based on data AT&T maintains in a different database.²

AT&T has split the HSPA+ coverage into 850 MHz and 1900 MHz areas to create the shape files provided in Exhibit 3.3 by using the Atoll-generated UMTS 850 MHz and 1900 MHz footprints for those UMTS sites at which HSPA+ is currently deployed. At sites where HSPA+ is activated, HSPA+ propagates at the same frequency band(s) as the underlying UMTS. Thus, for example, if a UMTS site is propagating at 1900 MHz only, HSPA+ at that same site would be propagating at the same band.

¹ As further described in the Initial Response, design centers are geographic areas at which AT&T tracks coverage data.

² AT&T's national HSPA+ footprint (as reflected in Exhibit 3.1) is generated using this process.

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[Exhibit 3.3 is redacted in its entirety as Highly Confidential Information]