

**United States of America  
FEDERAL COMMUNICATIONS COMMISSION  
EXPERIMENTAL  
RADIO STATION CONSTRUCTION PERMIT  
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WI2XTQ

(Call Sign)

0253-EX-CM-2017

(File Number)

NAME Microsoft Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) MOBILE: Redmond, WA, within 2 km, centered around NL 47-38-22; WL 122-07-44
- (2) MOBILE: Carnation WA, within 5 km, centered around NL 47-41-14; WL 121-56-23
- (3) MOBILE: Essex NY, within 5 km, centered around NL 44-18-42; WL 73-22-24
- (4) MOBILE: Almira, WA, within 5 km, centered around NL 47-42-38; WL 118-56-30
- (5) MOBILE: Woodland, CA, within 5 km, centered around NL 38-40-27; WL 121-50-26

Frequency Information

MOBILE: Redmond, WA, within 2 km, centered around NL 47-38-22; WL 122-07-44

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 54-72 MHz   | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 76-88 MHz   | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 180-216 MHz | MO            | 100KK1W             | 63 mW (ERP)      |                           |

This authorization effective November 20, 2017 and  
will expire 3:00 A.M. EST April 01, 2019

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Redmond, WA, within 2 km, centered around NL 47-38-22; WL 122-07-44

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 180-216 MHz | MO            | 100KQ1W             | 63 mW (ERP)      |                           |
| 476-608 MHz | MO            | 100KQ1W<br>100KK1W  | 63 mW (ERP)      |                           |
| 614-698 MHz | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |

MOBILE: Carnation WA, within 5 km, centered around NL 47-41-14; WL 121-56-23

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 54-72 MHz   | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 76-88 MHz   | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 180-216 MHz | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 476-608 MHz | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 614-698 MHz | MO            | 100KQ1W             | 63 mW (ERP)      |                           |

## Frequency Information

MOBILE: Carnation WA, within 5 km, centered around NL 47-41-14; WL 121-56-23

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 614-698 MHz | MO            | 100KK1W             | 63 mW (ERP)      |                           |

MOBILE: Essex NY, within 5 km, centered around NL 44-18-42; WL 73-22-24

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 54-72 MHz   | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 76-88 MHz   | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 180-216 MHz | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 476-608 MHz | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 614-698 MHz | MO            | 100KQ1W<br>100KK1W  | 63 mW (ERP)      |                           |

## Frequency Information

MOBILE: Almira, WA, within 5 km, centered around NL 47-42-38; WL 118-56-30

| Frequency   | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|-------------------------------|------------------|---------------------------|
| 54-72 MHz   | MO            | 100KQ1W<br>100KK1W            | 63 mW (ERP)      |                           |
| 76-88 MHz   | MO            | 100KK1W<br>100KQ1W            | 63 mW (ERP)      |                           |
| 180-216 MHz | MO            | 100KK1W<br>100KQ1W            | 63 mW (ERP)      |                           |
| 476-608 MHz | MO            | 100KK1W<br>100KQ1W<br>100KQ1W | 63 mW (ERP)      |                           |
| 614-698 MHz | MO            | 100KK1W<br>100KQ1W            | 63 mW (ERP)      |                           |

MOBILE: Woodland, CA, within 5 km, centered around NL 38-40-27; WL 121-50-26

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 54-72 MHz | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 76-88 MHz | MO            | 100KK1W             | 63 mW (ERP)      |                           |

## Frequency Information

MOBILE: Woodland, CA, within 5 km, centered around NL 38-40-27; WL 121-50-26

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 76-88 MHz   | MO            | 100KQ1W             | 63 mW (ERP)      |                           |
| 180-216 MHz | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 476-608 MHz | MO            | 100KK1W<br>100KQ1W  | 63 mW (ERP)      |                           |
| 614-698 MHz | MO            | 100KQ1W<br>100KK1W  | 63 mW (ERP)      |                           |

## Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at [http://freq.sbe.org/pdf\\_files/coordinators.pdf](http://freq.sbe.org/pdf_files/coordinators.pdf) to find the appropriate coordinator.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (4) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) Operation is not permitted in 608-614 MHz band.