



## **VERIFICATION STATEMENT GREENHOUSE GAS EMISSIONS**

APEX Companies LLC, (Apex) was engaged to conduct an independent verification of the greenhouse gas (GHG) emissions reported by VMWare for the period stated below. This Verification Statement applies to the related information included within the scope of work described below.

The determination of the GHG emissions is the sole responsibility of VMWare. Apex's sole responsibility was to provide independent verification on the accuracy of the GHG emissions reported, and on the underlying systems and processes used to collect, analyze and review the information.

### **Boundaries of the reporting company GHG emissions covered by the verification:**

- Operational Control
- Global
- Exclusions: Scope 3 Business Travel includes air travel only

### **Emissions data verified:**

- **Scope 1:** 4,454 metric tons of CO<sub>2</sub> equivalent
- **Scope 2 (Location-Based):** 67,524 metric tons of CO<sub>2</sub> equivalent
- **Scope 2 (Market-Based):** 15,237 metric tons of CO<sub>2</sub> equivalent
- **Scope 3:**  
Business Travel: 58,081 metric tons of CO<sub>2</sub> equivalent

Data and information supporting the Scope 1 and Scope 2 GHG emissions assertion were historical in nature and in some cases were estimated.

Data and information supporting the Scope 3 GHG emissions assertion were in some cases estimated rather than historical in nature.

### **Period covered by GHG emissions verification:**

- February 1, 2018 to January 31, 2019

### **GHG Reporting Protocols against which verification was conducted:**

- World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD) Greenhouse Gas (GHG) Protocol Corporate Accounting and Reporting Standard (Scope 1 and 2)
- WRI/WBCSD Greenhouse Gas Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard (Scope 3)

### **GHG Verification Protocol used to conduct the verification:**

- ISO 14064-3: Greenhouse gases -- Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions

### **Level of Assurance and Qualifications:**

- Limited
- This verification used a materiality threshold of 5% for aggregate errors in sampled data for each of the above indicators

**GHG Verification Methodology:**

- Interviews with relevant personnel of VMWare;
- Review of documentary evidence produced by VMWare;
- Review of VMWare data and information systems and methodology for collection, aggregation, analysis and review of information used to determine GHG emissions; and
- Audit of sample of data used by VMWare to determine GHG emissions.

**Assurance Opinion:**

Based on the process and procedures conducted, there is no evidence that the GHG emissions assertion shown above:

- is not a fair representation of the GHG emissions data and information; and
- has not been prepared in accordance with the WRI/WBCSD GHG Protocol Corporate Accounting and Reporting Standard (**Scope 1 and 2**), and WRI/WBCSD Greenhouse Gas Protocol Corporate Value Chain (**Scope 3**) Accounting and Reporting Standard (Scope 3).

It is our opinion that VMWare has established appropriate systems for the collection, aggregation and analysis of quantitative data for determination of these GHG emissions for the stated period and boundaries.


**Statement of independence, impartiality and competence**

Apex is an independent professional services company that specializes in Health, Safety, Social and Environmental management services including assurance with over 30 years history in providing these services.

No member of the verification team has a business relationship with VMWare, its Directors or Managers beyond that required of this assignment. We conducted this verification independently and to our knowledge there has been no conflict of interest.

Apex has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

The verification team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of Apex's standard methodology for the verification of greenhouse gas emissions data.

**Attestation:**A handwritten signature in blue ink, appearing to read 'Mary E. Armstrong-Friberg'.

Mary E. Armstrong-Friberg, Lead Verifier  
Principal Consultant  
APEX Companies, LLC.  
Los Angeles Area, California

A handwritten signature in blue ink, appearing to read 'Trevor A. Donahue'.

Trevor A. Donahue, Technical Reviewer  
Technical Director, Climate Change Services  
APEX Companies, LLC.  
San Francisco Bay Area, California

July 15, 2019

*This verification statement, including the opinion expressed herein, is provided to VMWare and is solely for the benefit of VMWare in accordance with the terms of our agreement. We consent to the release of this statement by you to CDP in order to satisfy the terms of CDP disclosure requirements but without accepting or assuming any responsibility or liability on our part to CDP or to any other party who may have access to this statement.*