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I. INTRODUCTION AND REPORT SCOPE

1. My name is Dr. Martin Farach-Colton. I have been retained by counsel for Plaintiffs Valtrus Innovations Ltd. and Key Patent Innovations Ltd., Inc. (collectively, “Valtrus”) to serve as an expert in *Valtrus Innovations Ltd. v. SAP America, Inc.*, Case No. 2:24-cv-00021-JRG and *Valtrus Innovations Ltd. v. SAP America, Inc.*, Case No. 2:24-cv-00533-JRG in the United States District Court for the Eastern District of Texas. I expect to testify at trial regarding the matters set forth in this expert report, if asked about those matters by the Court or the parties’ attorneys.

A. Scope and Summary of Analysis

2. The scope of this report is to determine whether certain products and services of Defendants SAP America, Inc. and SAP, SE (the “Accused Products”) infringe certain claims (the “Asserted Claims”) of U.S. Patent Nos. 6,889,244; 7,152,182; 7,313,575; and 7,936,738 (collectively, the “Asserted Patents”), as identified in **Table A** below.

Table A – Identification of Asserted Patents and Asserted Claims	
Asserted Patents	Asserted Claims
U.S. Patent No. 6,889,244 (“the ’244 patent”)	1
U.S. Patent No. 7,152,182 (“the ’182 patent”)	1, 6, 10, 16, 17, 18
U.S. Patent No. 7,313,575 (“the ’575 patent”)	1, 31, 36
U.S. Patent No. 7,936,738 (“the ’738 patent”)	1, 3, 33

3. Specifically, I have been asked to provide my opinions concerning (i) the technology disclosed and claimed in the Asserted Patents; (ii) the advantages or disadvantages with the technology disclosed and claimed in the Asserted Patents; (iii) whether and to what extent the Accused Products infringe the Asserted Claims; (iv) to the extent there is infringement, the