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## STATEMENT OF WORK #8

This Statement of Work ("**SOW**") is made part of and incorporated by this reference into the Master Agreement ("**Agreement**") entered into by and between T-Mobile USA, Inc. ("**TMUS**"), and Ericsson Inc., a Delaware Corporation with a place of business at 6300 Legacy Dr., Plano, TX 75024 (included its permitted successors and assigns, ("**Ericsson**") on March 27, 2014. This SOW is effective as of September 1, 2017 ("**SOW Effective Date**"). Any defined terms used herein that are not otherwise defined in this SOW will have the meanings assigned to them in the Agreement.

### 1.     SERVICES/DELIVERABLES.

Ericsson shall perform (a) data analysis services for specific source systems identified by TMUS including but not limited to Ericsson, Teradata Financial Analytics Data Store ("TDFADS"), and Integrated Data Warehouse, ("IDW") (collectively, "source systems"), and (b) data acquisition, cleansing, dispatch, modeling, mapping and transformation activities for projects for TMUS's Enterprise Data Services ("EDS") organizations including but not limited to Finance, Marketing, Supply Chain, and Digital teams (collectively, the "Services").

Ericsson will perform the Services listed below:

- Requirements Analysis – review and analyze user stories, and review High Level System Design Documents ("HLSD") with solution architects.
- Functional / Business Use Case Analysis, Reporting Requirement ("RRQ")/user story mapping to source systems.
- Analyze source systems and data, including but not limited to data type, data anomalies, data schemas for data completeness, entity relationships, data consistency and uniqueness, range, and value distribution.
- Write SQL Scripts or use a data profiling tool such as Attacama to analyze source systems data to support Data modelling and source to target mappings (S2TM), and creating relevant artifacts and providing support as needed.
- Participate in daily standups, and share regular project status with Scrum Master, TMUS Project Manager and/or other stakeholders as needed.
- Any other relevant analysis, design, support activities assigned to the team members from time to time.

Ericsson team members will be assigned to various project teams and each project team carries out assigned tasks for their teams which include:

- Daily standups to discuss what have been worked on yesterday and what activities are planned for today.
- Resolve blockers/ impediments. Team members typically have 24 hours to resolve blockers, or issue will be escalated.
- Sprint planning and grooming.
- Source System Analysis documents, procedures and scripts
- Daily meetings with the Functional Analysts ("FA") & Subject Matter Experts ("SME") from individual project (For example: New Financial System ("NFS"))

RRQ Elaboration:

- RRQs are identified by the TMUS IDW program to be delivered with each Universe release. The prioritized RRQ sets are determined by the Finance, Marketing, Revenue Assurance, and Supply Chain business engagement teams. Source System Analysts ("SSA")'s are expected to collaborate with Business Analysts and Data Architects to collect reporting details and identify the entities and data attributes as well as facts and dimensions. Ericsson shall support Solution Owners and FAs for the elaboration process of RRQs requested by the TMUS business. Ericsson shall support the TMUS Data Architecture team for the current and ongoing projects (e.g., Sedona, Uprising, NFS by delivering source system analysis document).

Source System Analysis and Data Mapping:

- There are several systems within TMUS that are considered data sources for IDW such as Samson, Prepaid Reporting Services (PRS), Equipment Installment Plan (EIP), etc. SSAs are expected to perform source system analysis for data acquisition and map the source system data to business requirements and IDW data models. The scope of each source system analysis and data mapping to requirements is dictated by the project team, project scope and business priorities. SSAs are responsible for the source system analysis and preparation of the SSA document to the architecture team to assist Data Architects to develop data models and Source-to-target mappings (S2TM).

Data Model Design Authority and Review:

- SSAs assist data architects with Source-To-Target-Mapping ("S2TM") and develop target data models. The model is reviewed periodically and SSAs are expected to validate the data models.

Identification of External Data Sources and Detailed Data Fetching Procedure:

- Certain data is provided by external sources. SSAs are expected to work with relevant parties to perform data profiling and provide detailed data acquisition procedures including scripts. Additionally, there are DDLs that SSAs are expected to analyze and validate before it is handed over to the TMUS DevOps teams.

Data Ingestion Knowledge Support/Share:

- Support Solution Owners, Product Owners and Functional Analysts for the elaboration process of RRQs requested by business to implement for a project. SSA team members can take up any RRQ requirement when there is enough bandwidth outside of projects to support data analysis and provide support to Data Architects and DevOps through design, development, testing and UAT. They act as source system SMEs by providing clarity on source data.

Requirements Gathering Meetings:

- SSAs will support FAs in requirements analysis and support development of user stories and requirements

- SSAs are expected to review Data Architecture design documents. SSAs occasionally participate in TMUS IDW data model discussions and validate data model mapping and provide feedback on Ericsson BSCS mappings.

Source System Analysis (SSA):

- SSAs will prepare SSA documents. SSA documents include input for data modeling and S2TM document prepared by DAs.

- SSAs will also conduct Design Change and CR impact analysis. When there is a CR for upstream platform, SSAs must support DAs and Product Owners (POs) to understand the impact of a specific CR in IDW reports.

## 1.1. Deliverables.

**Ericsson** will perform the following tasks:

**(a)** Analysis, design, and creation of Source System Analysis Document

**(b)** Provide any handoff documentation related to the Project, which includes open status/pending activities, etc.

**(c)** Deliverables for Source System Analysis:

- Source System information

- Configure connection to Source Systems

- Business Use Case Analysis

- RRQ mapping to source systems

- Assist Data Architects with Source to Target mapping

**(d)** Deliverables for Data Analysis

- Data Profiling to include but not limited to data completeness, entity relationships, data consistency and uniqueness, range, and value distribution

## 2. Ericsson's Responsibilities.

## 2.1. Ericsson to Provide:

**(a)** Single point of contact from Supplier to act as Project Manager ("SPM") to work with TMUS's Project Manager ("TPM"), or another designated representative.

**(b)** Reports — Weekly and/or monthly status reports as required by TPM.

## 2.2. Ericsson Tasks and Responsibilities:

**(a)** Provide resources to perform SSA tasks with access to Ericsson project and product documentation as required.

**(b)** Provide SSA teams required to meet the forecasted volume. Any change to the forecast provided on the SOW Effective Date may result in a Change Request.

**(c)** Schedule and hold monthly governance meetings regarding SOW #8, with participation from SPM, TPM and others as needed. In this meeting the Parties will agree on completed deliveries for the past months and next month's deliveries within the scope of Section 1.

## 3. TMUS'S RESPONSIBILITIES.

## 3.1. TMUS to Provide:

(a)     Single point of contact from **TMUS** to act as TPM with the SPM, or other designated representative.

(b)     TMUS represents that Ericsson has the right to access agreed-upon source systems and analyze the data to enable the performances included in this SOW.

### 3.2.   TMUS Tasks and Responsibilities:

a)  Assign a TMUS resource who will act as the primary point of contact with Ericsson and drive the execution and communication of this SOW within the TMUS organization, and who will assist Ericsson in obtaining available and relevant TMUS information on a timely basis.

b)  Provide plan for Deliverables for the next coming month based on Services described in Section 1.

c)  Provide forecasted volume need in terms of SSA teams for next coming 3 months.

d)  Provide Ericsson all appropriate TMUS security work place policies and procedures and any required access to physical locations necessary to perform the Services.

e)  Provide Ericsson required connectivity; ensure system availability and access to the necessary Systems to enable performing services.

f)  Communicate to Ericsson any issues, changes, or modifications occurring on the TMUS source systems which will affect the Services to be provided.

g)  Notwithstanding 2.18.2 of the Agreement, TMUS will provide any required tool or other resources for Supplier to perform the Services in this SOW.

h)  Provide training or access to training material for the relevant TMUS processes and applications under the scope of this SOW.

i)  Participate in monthly SSA SOW governance meetings as scheduled by SPM

## 4.     DURATION OF SOW/TERMINATION.

**4.1.**     This SOW is estimated to last for 12 months and more specifically will commence on September 1, 2017 and conclude on the latter of when all Deliverables are Accepted by **TMUS** or September 1, 2018 unless extended further by written agreement of both parties in an amendment to this SOW.

**4.2.     Termination for Convenience.** TMUS may terminate this SOW for any reason, or for no reason, upon written notice to Supplier. If TMUS terminates under this Section, TMUS will only be obligated to pay Supplier for Services completed and Accepted by TMUS through the date of termination.

**5.     FEES.** Ericsson may invoice for the Services and Deliverables after Acceptance by **TMUS** of each Milestone in Table 5-1 below, not to exceed $688,000. In the event Ericsson does not complete the Milestone Deliverables by the Projected Date of Completion, TMUS has the right to reduce the Milestone Payment by twenty percent (20%) unless such failure to complete the Milestone Deliverables is due to TMUS's failure to perform an obligation under the Agreement.

Table 5-1

| Milestone | Projected Date of Completion | % Payment Upon Milestone Acceptance | Milestone |
|---|---|---|---|
| 1 | Oct 1, 2017 | 15% | Deliverables as described in Section 1.4 in support of the National Launch build, including source logic for the S2TM, reporting views, Market Trial defect fixes, knowledge transfer, and National Launch UAT. |
| 2 | Nov 1 | 15% | Deliverables as described in Section 1.4 in support of the National Launch build, including source logic for the S2TM, reporting views, Market Trial defect fixes, knowledge transfer, and National Launch UAT. |
| 3 | Dec 1 | 7% | Deliverables as described in Section 1.4 in support of the National Launch build, including source logic for the S2TM, reporting views, Market Trial defect fixes, knowledge transfer, and National Launch UAT. |
| 4 | Jan1, 2018 | 7% | Deliverables as described in Section 1.4 in support of the National Launch build, including source logic for the S2TM, reporting views, Market Trial defect fixes, knowledge transfer, and National Launch UAT. |
| 5 | Feb 1 | 7% | Deliverables as described in section 1.4 in support of the National Launch build, providing source logic for the S2TM and reporting views |
| 6 | March 1 | 7% | Deliverables as described in section 1.4 in support of the National Launch defect fixes, updating source logic for the S2TM and reporting views |
| 7 | April 1, | 7% | Deliverables as described in section 1.4 in support of the National Launch defect fixes, updating source logic for the S2TM and reporting views |
| 8 | May1 | 7% | Deliverables as described in section 1.4 in support of the Postpaid, providing source logic for the S2TM and reporting views |
| 9 | June1 | 7% | Deliverables as described in section 1.4 in support of the Postpaid, providing source logic for the S2TM and reporting views |

| Milestone | Projected Date of Completion | % Payment Upon Milestone Acceptance | Milestone |
|---|---|---|---|
| 10 | July 1 | 7% | Deliverables as described in section 1.4 in support of the Postpaid, providing source logic for the S2TM and reporting views |
| 11 | Aug1 | 7% | Deliverables as described in section 1.4 in support of the Postpaid, providing source logic for the S2TM and reporting views |
| 12 | Sep 1 | 7% | Deliverables as described in section 1.4 in support of the Postpaid, providing source logic for the S2TM and reporting views |

**TMUS** will issue an order in the amount of $688,000 upon SOW execution.

**6.** **EXPENSES**. Following Acceptance by TMUS of the Deliverables, all reasonable travel and related expenses that have been pre-approved in writing by TMUS and are incurred by Ericsson employees pursuant to the performance of the Services described in this SOW ("Expenses"), will be reimbursed by TMUS in accordance with TMUS's Supplier Travel and Expense Policy ("Expense Policy"). Notwithstanding any provision to the contrary within the Expense Policy, Expenses will not exceed ten percent (10%) of the Fees. If requested, the Expense Policy will be provided to Ericsson. Ericsson will follow such Expense Policy and provide original receipts (and any supporting documentation, when requested by TMUS) to support all reimbursement requests for Expenses.
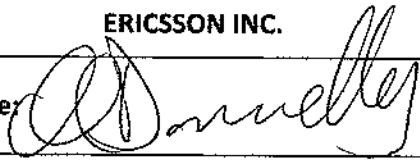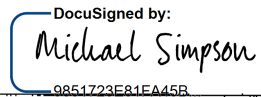
**7.** PROJECT MANAGERS.

| TMUS Project Manager ("TPM"). | | Supplier Project Manager ("SPM"). | |
|---|---|---|---|
| NAME: | Avinash Gupta | NAME: | Howard Hsu |
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| PHONE: | 5034907306 | PHONE: | +14253620102 |
| FAX: | | FAX: | +14086622670 |
| EMAIL: | Avinash.Gupta149@T-Mobile.com | EMAIL: | howard.hsu@ericsson.com |

## 8. SITES AND LOCATIONS.

The Services will be conducted primarily at the **TMUS** facility located at:

T-Mobile USA, Inc.
12920 SE 38th Street
Bellevue, WA 98006

The Parties have caused this SOW to be duly executed by their authorized representatives below and, notwithstanding the signature dates below, intend it to be effective as of the SOW Effective Date.

| ERICSSON INC. | | T-MOBILE USA, INC. | |
|---|---|---|---|
| Signature: | *[signature]* | Signature: | DocuSigned by: *Michael Simpson* 9851723E81EA45B |
| Name: | M DONNELLY | Name: | Michael Simpson |
| Title: | VP SALES | Title: | Vice President, Technology Procurement |
| Date: | 09/07/2017 | Date: | 9/28/2017 |

DocuSigned by:
T-Mobile Legal Approval By:
*[signature]*
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