

Document History

Version	Date	Author	Comment
v8	4/6/2018	R. Lu	<ul style="list-style-type: none">Separated initial ADF FDF process and DCM replacement process diagrams into two different files.
v9	4/16/2018	R. Lu	<ul style="list-style-type: none">Updated 17CY+ DCM Replacement diagram to replace FTH batch jobs with web services.
v10	5/4/2018	R. Lu	<ul style="list-style-type: none">Corrected inaccuracies in DCM Activation and Provisioning between TSC and TSP. It should be between DCM and TSP (step 6 & 7) in 17CY+ diagram.
v11	5/5/2018	R. Lu	<ul style="list-style-type: none">Updated 17CY DCM Repl. Updated diagram to use Web Services to distribute 17CY DCM replacement data from PQSS to CVS and from CVS to other downstream applications.Added BI in 17CY Updated and 17CY+ diagrams.
v12	5/22/2018	R. Lu	<ul style="list-style-type: none">Rearranged boxes in 17CY DCM Repl. Updated diagrams to be more similar to 17CY+ DCM Repl. Diagram.Changed 17CY+ DCM Repl. ADF flow from TSC->TC to CTP->TC.

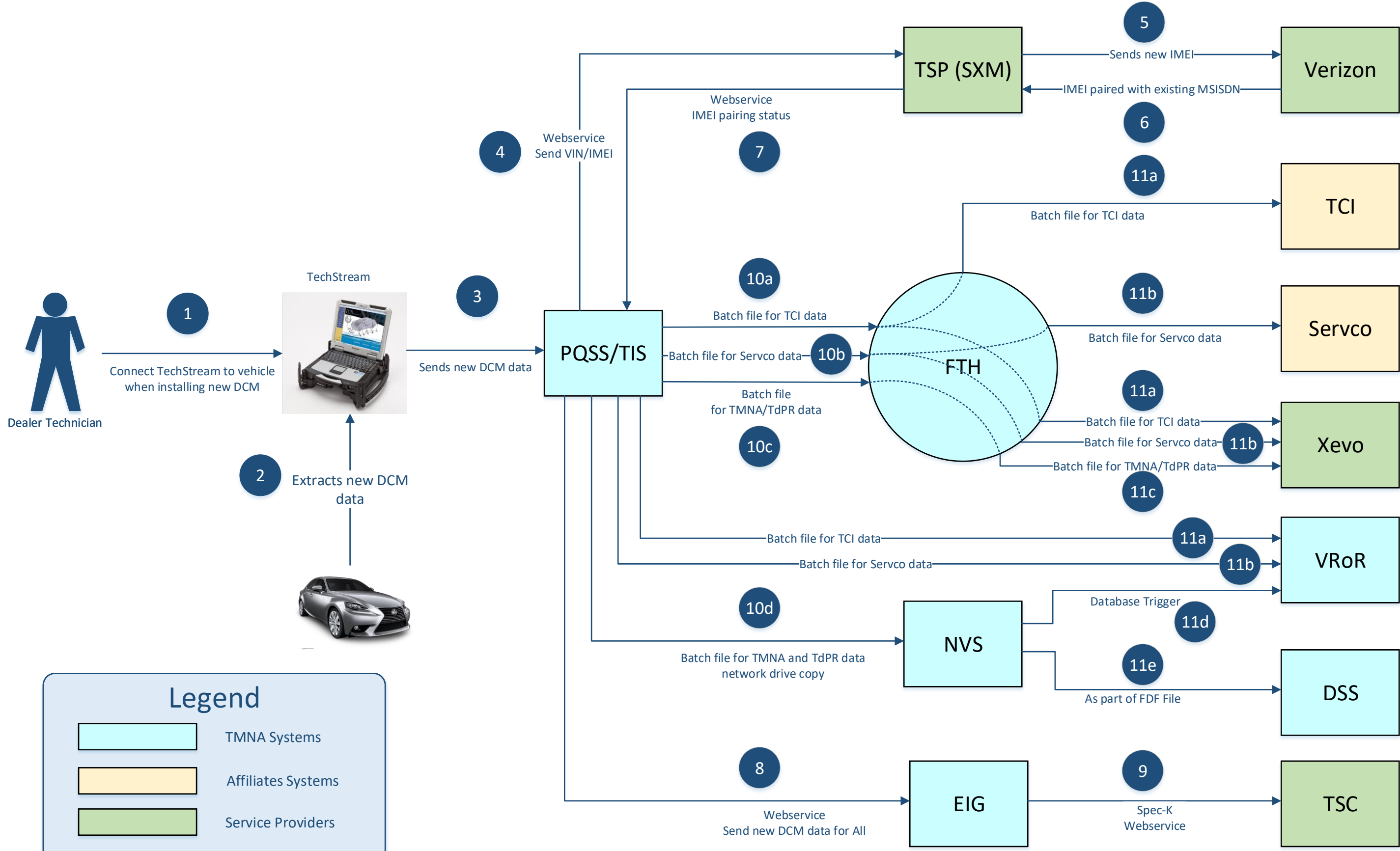
Table of Content

Diagram

Page

DCM Replacement Process for 17CY and Prior Vehicles (Existing)	1
DCM Replacement Process for 17CY and Prior Vehicles (Updated)	2
DCM Replacement Process for 17CY+ Vehicles	3

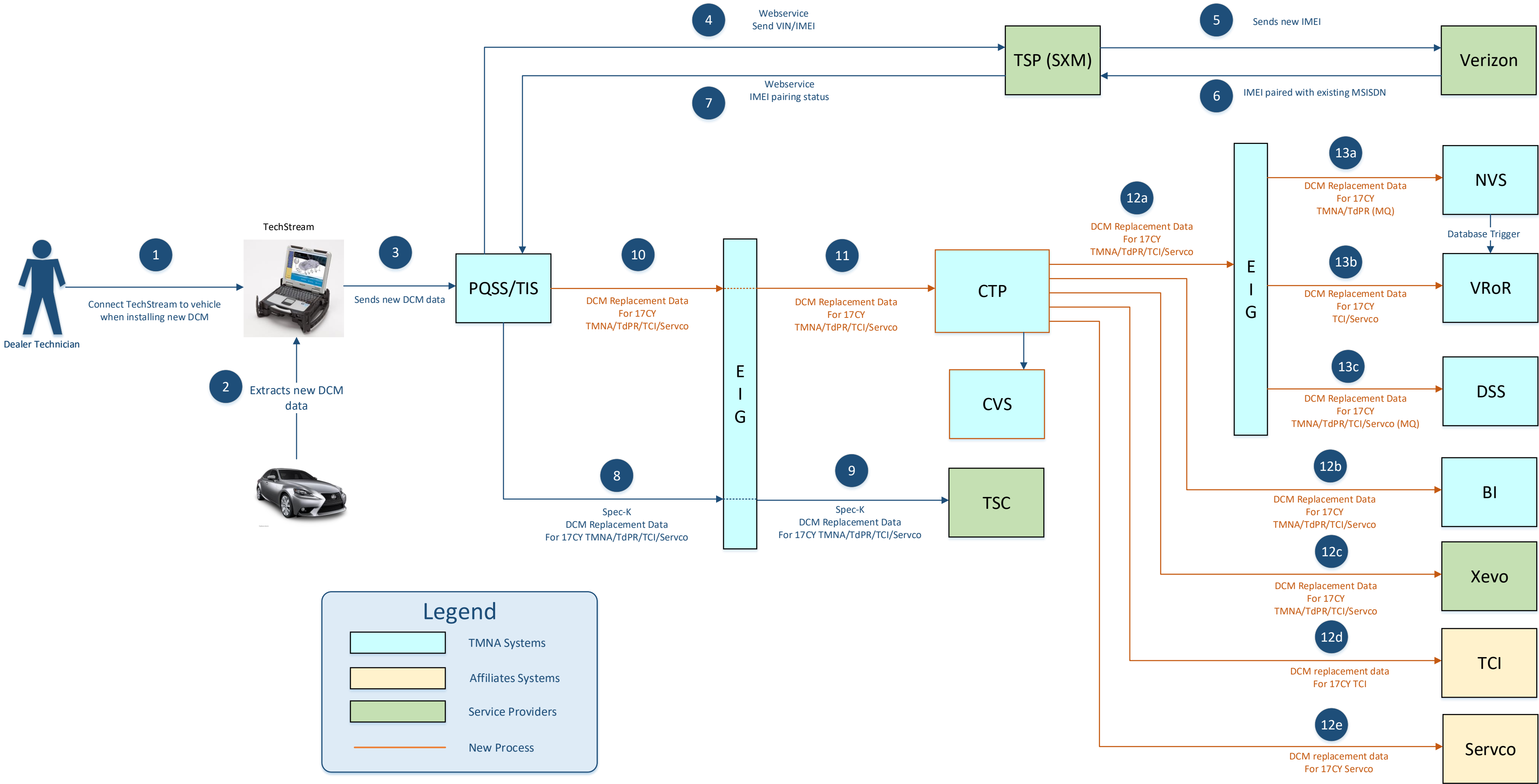
17CY Existing DCM Replacement Process



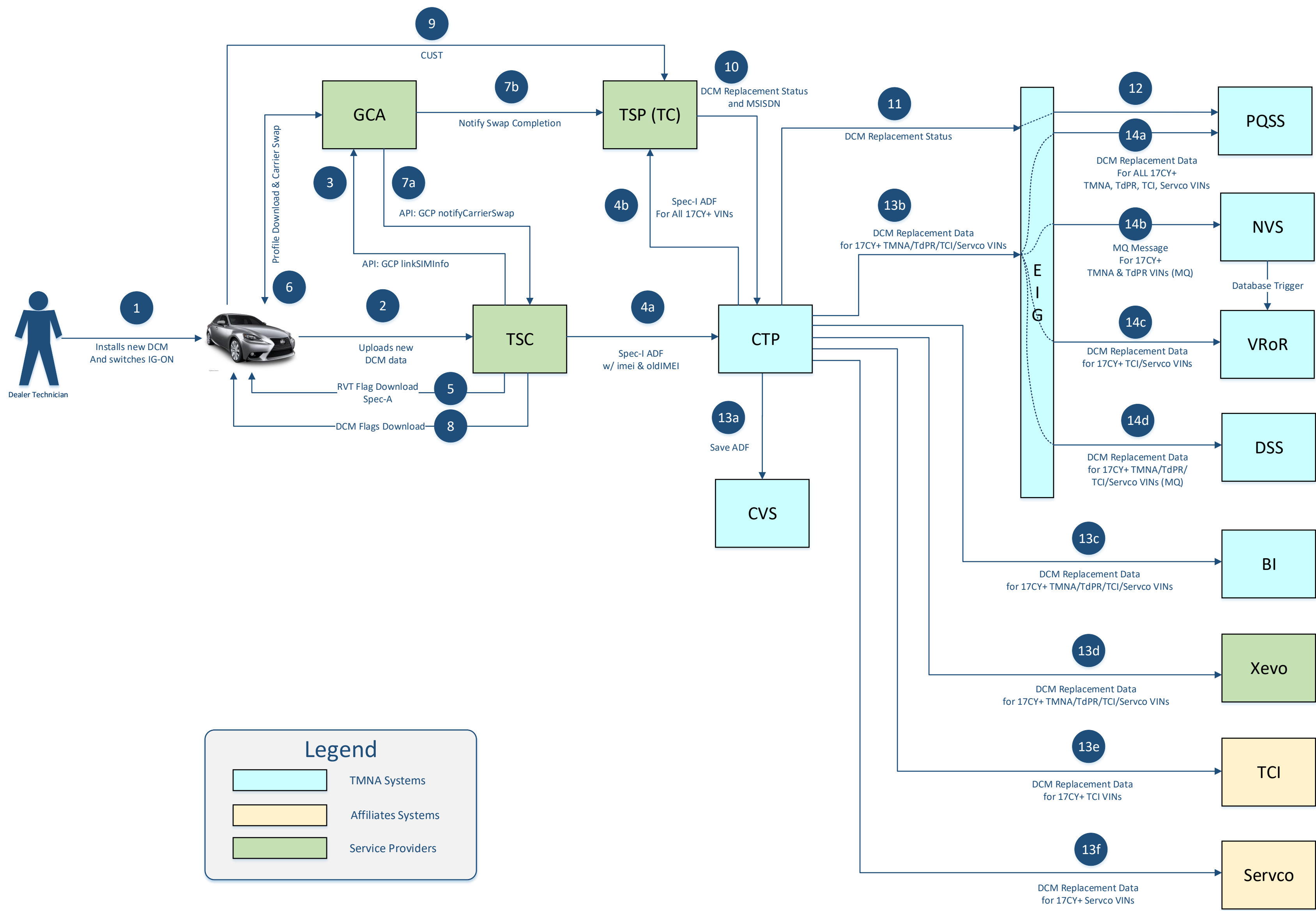
Steps

1. Dealer technician plugs Global TechStream scan tool to the vehicle, and replaces the old DCM with a new one.
2. Scan tool extracts information from the new DCM.
3. TechStream system invokes TIS service to send the new DCM data.
4. TIS invokes TSP (SXM) service with the VIN and new DCM data.
5. SXM calls carrier (Verizon) service with the VIN and IMEI.
6. Verizon responds asynchronously with the new pairing between the VIN and MSISDN.
7. SXM updates its system and sends pairing status back to TIS.
8. TIS invokes EIG service end point for TSC Spec-K service.
9. EIG calls TSC Spec-K end point to send the new VIN/IMEI information to TSC.
- 10a-c. PQSS generates daily batch files for DCM replacement data and sends them to FTH.
- 10d. PQSS also sends daily batch file for TMNA and TdPR VINs to NVS.
- 11a-e. New DCM data generated by PQSS is transmitted from FTH to downstream systems such as TCI, Servco, Xevo, VRoR, DSS, and TSC.

17CY DCM Replacement Process (Updated)



17CY+ DCM Replacement Process (New & Old Elec. Platform)



Steps

1. Dealer technician replaces the old DCM with a new one, and switch vehicle to IG-ON.
2. DCM uploads ADF with the new DCM information to TSC.
3. TSC sends new DCM information to GCA.
- 4a. TSC sends ADF to CTP with the new DCM information.
- 4b. TSC sends ADF to TSP with the new DCM information.
5. TSC sends down RVT flag to DCM via Spec-A.
6. Profile download and carrier swap between eUICC and GCA.
- 7a-b. GCA notifies TSC and TSP of swap completion.
8. DCM flags are downloaded from TSC to DCM.
9. CUST between DCM and TSP.
10. TSP provides the activation/provisioning status to CTP.
11. CTP invokes EIG service end point to send the status.
12. EIG passes the DCM replacement status to PQSS.
- 13a. CTP updates CVS with the new DCM IMEI.
- 13b. CTP publishes the new DCM data to EIG.
- 13c. CTP publishes the new DCM data to BI.
- 13d. CTP publishes the new DCM data to Xevo.
- 13e. CTP publishes the new DCM data to TCI.
- 13f. CTP publishes the new DCM data to Servco.
- 14a. EIG sends the new DCM data to PQSS for all 17CY+ VINs.
- 14b. EIG sends the new DCM data to NVS for 17CY+ TMNA and TdPR VINs, and NVS updates VRoR with database trigger.
- 14c. EIG sends the new DCM data to VRoR for 17CY+ TCI and Servco VINs.
- 14d. EIG sends the new DCM data to DSS for all 17CY+ VINs.