

# CR039 Registration Service IF-040 Change

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# Issue

- There is a maximum 30-day gap before MDS sends the PUB-040 Annual Consumption data direct to the newly appointed Suppliers and Data Services
- This approach creates a problem where these parties do not have recent data
- To resolve this the programme design has MPRS processing the PUB-040 to populate the B027 Block on Supplier and Service Appointment Messages
- This decision creates significant difficulties:
  - MPRS required to process high volumes of (non-core) PUB-040 messages in addition to the high volumes of core BAU processing
  - High LDSO infrastructure costs required to guarantee B027 accuracy and to meet performance requirements
  - Low priority for MPRS making it highly likely that B027 data will be stale due to processing in the Overnight Batch

# PUB-040 Volumes

<b>PUB-40 Daily Volume</b>	<b>Peak Other PUBs Daily Volume</b>	<b>Peak Gate Closure Inbound Daily Volume</b>	<b>Total Daily Volumes</b>
1,033,333	300,000	326,656	1,659,989*
<b>PUB-40 Daily Volume</b>	<b>Average Other PUB Daily Volume</b>	<b>Average Gate Closure Inbound Daily Volume</b>	<b>Total Volumes</b>
1,033,333	66,000	24,534	1,123,867*

\*LDSO Portfolio Coefficient

PUB-040 adds significant processing overhead to the Registration Service, potentially compromising normal and peak processing activity.

# Proposed Solution

## DIP Requirement:

- Each time an IF-036 [DS-App] or IF-001 [ChangeOfSupplier] is processed:
  - Search the message archive for the last PUB-040 for the same MPAN
  - If exists, then send a “re-headed” copy of the PUB-040 to the same DS & SUPP as in the IF-036/IF-001 header, alongside issuing the PUB-036/PUB-001
  - If it does not exist, then just send PUB-036/PUB-001 as per current process

# Proposed Solution

- REGS SUP SDS ADS Requirement
  - Remove Block B027 from IF-002, IF-001 & IF-036
  - Only load Annual Consumption from PUB-040
  - Remove REGS from PUB-040 Routing
- MDS Requirement
  - Remove MHHS-BR-AC-006 & MHHS-BR-AC-007

# Analysis

- Least impact solution:
  - SUP and S/ADS already load PUB-040 for Annual Consumption
  - B027 population is conditional and could be removed in late SIT cycle to reduce SIT impact
  - Low/No MDS impact
  - Low MPRS development impact
  - Positive MPRS operational impact due to reducing unnecessary (non-core) processing
  - Re-use existing DIP Archive function from IF-015

# Alternatives

- Obtain data from EES
  - ADS, SDS not EES users
- ADS, SDS & SUP use DIP Archive API to request PUB-040 replay
  - Development of Function for SUPP, ADS, SDS & DIP Change
- Format Change to PUB-040 to make processing more efficient for MPRS
  - MPRS and MDS Impact