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| CHANGE REQUEST | |
| Meeting ID:\* | TDE 54.1 |
| Source:\* | Bob Flynn (Exacta GSS); bob.flynn@exactagss.com |
| Date:\* | 30 May 2022 |
| Reason for Change/s:\* | Add material for subscription capabilities |
| CR against: Release\* | Rel-5 |
| CR against: WI\* | Active <WI-0107>  MNT maintenance / < Work Item number(optional)>  Is this a mirror CR? Yes  No  mirror CR number: (Note to Rapporteur - use latest agreed revision)  STE Small Technical Enhancements / < Work Item number (optional)>  Only ONE of the above shall be ticked |
| CR against: TS/TR\* | TR-0057v0.6.0 |
| Clauses \* | 5.4.3 |
| Type of change: \* | Editorial change  Bug Fix or Correction  Change to existing feature or functionality  New feature or functionality  Only ONE of the above shall be ticked |
| Other TS/TR(s) impacted | None |
| Post Freeze checking:\* | This CR contains only essential changes and corrections? YES  NO  This CR may break backwards compatibility with the last approved version of the TS? YES  NO |
| Template Version: January 2019 (do not modify) | |

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# Introduction

While working on “Developer Guide: Advanced Subscription and Notification” it became clear that some updates to this TR are justified.

### -----------------------Start of change 1---------------------------------------------

### 5.4.3 Subscription and Notification

Devices generate data and send the data to a oneM2M CSE so that applications or processes can access the data without the need to directly communicate with the device. This simplifies the process for the application consuming data and the device generating the data.

* Notification of events generated by new or modified resources can be received by configuring the <*subscription*> resource.
* The <*subscription*> resource contains configuration information for its "subscribed-to" resource.
  + <subscription> resource is a child resource of the "subscribed-to" resource.
* The originator (resource subscriber) must have RETRIEVE privileges to the "subscribed-to" resource in order to create the <*subscription*> resource.
* Advanced features can be configured in the <*subscription*>.
  + Specify which, when, and how notifications are sent.
  + Example: batchNotify – receive batches of notification rather than one at a time.
  + Aggregation of <subscription> resource created using the <group> resource
  + Notification of missing <timeSeriesInstance> resources that are detected by the CSE.
  + Notification of changes to multiple resources using the <crossResourceSubscription>
* Notification messages can be sent to native oneM2M applications and non-oneM2M endpoints that can be used to further process new or modified data.



Figure 5.4.3-1 : Subcription and notification example

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### -----------------------End of change 1---------------------------------------------

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