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| Title:\* | TR0053-Subscription & Notification |
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| Intended purpose of  document:\* | Decision  Discussion  Information  Other <specify> |
| Impacted other TS/TR(s) |  |
| Decision requested or recommendation:\* | <A concise statement of the decision required or the recommended action to be taken> |
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# Introduction

SDS-2019-0378R02 (TR0053-Subscription\_&\_Notification) propose the following potential requirements:

1. The oneM2M system shall support deferred notification for some or all of the notification receivers.
2. The oneM2M system shall support sending deferred notifications with a subsequent check that the event notification criteria are still met after the deferral period is complete.(e.g. is met after the specified time frame).

This contribution propose a potential solution by adding a new attribute *deferredNotification* under the subscription resource, This attribute has a value of the deferral period and a list of deferred notification receiver. The hosting CSE shall sending deferred notification with a subsequent check that the event notification criteria are still met after the deferral period to the deferred notification receiver.

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

6.x.4 Potential Solution

### 6.x.4.x Solution x: Deferred Notification

### 6.x.4.x.1 Definition of a new attribute for *subscription* Resource

Table 6.x.4: A new Attributes of *<subscription>* resource

| Attributes of *<subscription>* | Multiplicity | RW/  RO/  WO | Description |
| --- | --- | --- | --- |
| *deferredNotification* | 0..1 | RW | This attribute (notification policy), if set, indicates deferred notification for some or all of the notification receiver. This attribute has a value of the deferred period and a list of deferred notification receiver. The hosting CSE shall sending deferred notification with a subsequent check that the event notification criteria are still met after the deferred period to the deferred notification receiver. |

### 6.x.4.x.2 Example Procedure for Deferred Notification



step1: Subscriber send the create <subscription> request with *notificationURI=* *Notification Recevier #1 and Notification Recevier #2*, the *deferred¬Notification* including *deferred period* and *deferred notificationURI*, e.g., *deferred Period=10s, deferred notificationURI=#2*;

step2: The hosting CSE create <subscription> resource with *deferred Period=10s, deferred notificationURI=#2*;

step3: The hosting CSE send create <subscription> response;

step4: When the notificationCriteria is met, the hosting CSE sent notify request to the Notification Recevier #1

step5: When the *deferral period* is complete and check if the *notificationCriteria* are still met

step6: If the *notificationCriteria* are still met, the hosting CSE send the notification to the Notification Receiver#2

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