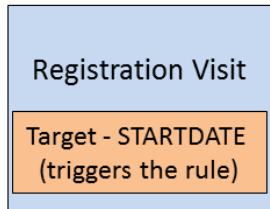


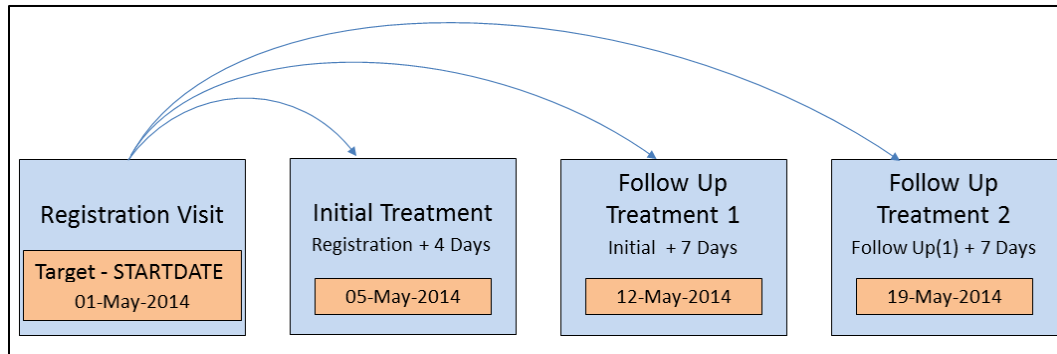
EventAction Example 1: Target=STARTDATE – One Target; Multiple Destinations

In this sample Rule, the Initial Treatment, Follow Up Treatment 1, and Follow Up Treatment 2 are automatically scheduled as long as there is a Registration Visit STARTDATE. Registration STARTDATE is the only Target defined. First we'll envision how this Rule schedules Events, and then we'll look at the entire Rule, and then break it down into logical pieces.

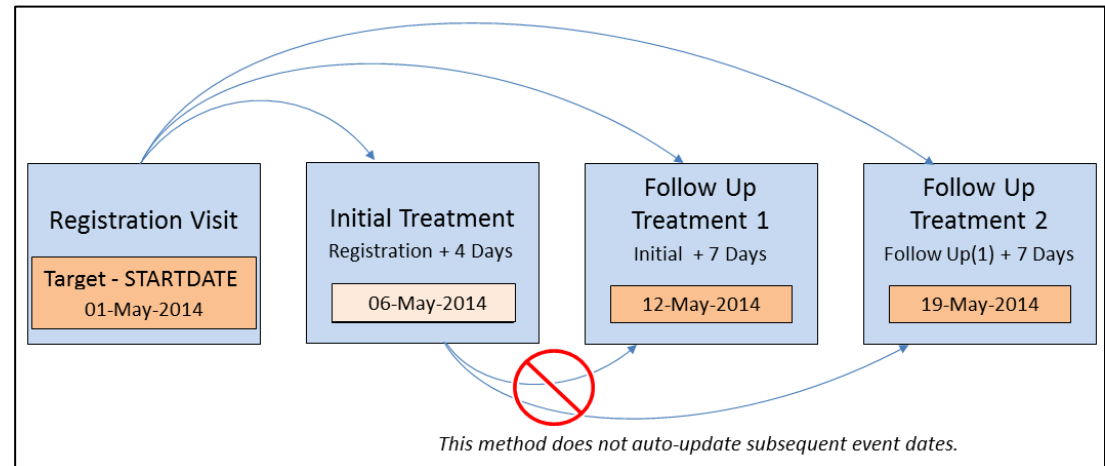


In this example, the Registration Visit STARTDATE is the Target or value that triggers the Rule.

When the Registration Visit STARTDATE is entered, the subsequent Events are automatically scheduled based on the Value Expression in the Rule (e.g., Registration + 4 days):



Because this Rule is only triggered based on the Registration STARTDATE, if any of the Event dates other than Registration Visit STARTDATE are changed, subsequent Events are NOT auto-updated.



The following Rule schedules the Initial Treatment, Follow Up Treatment 1, and Follow Up Treatment 2 as long as there is a Registration Visit STARTDATE.

```
1 <RuleImport>
2   <RuleAssignment>
3     <Target Context="OC_RULES_V1">SE_REGISTRATIONVISIT.STARTDATE</Target>
4     <RuleRef OID="INITIALTREATMENT_STARTDATE_R1">
5       <EventAction IfExpressionEvaluates="true" OID="SE_INITIALTREATMENT">
6         <RunOnStatus not_scheduled="true" scheduled="true" data_entry_started="false" completed="false" skipped="false" stopped="false"/>
7         <EventDestination Property="STARTDATE">
8           <ValueExpression Context="OC_RULES_V1">SE_REGISTRATIONVISIT.STARTDATE + 4</ValueExpression>
9         </EventDestination>
10        </EventAction>
11      </RuleRef>
12      <RuleRef OID="FOLLOWUPTREATMENT1_STARTDATE_R1">
13        <EventAction IfExpressionEvaluates="true" OID="SE_FOLLOWUPTREATMENT">
14          <RunOnStatus not_scheduled="true" scheduled="true" data_entry_started="false" completed="false" skipped="false" stopped="false"/>
15          <EventDestination Property="STARTDATE">
16            <ValueExpression Context="OC_RULES_V1">SE_INITIALTREATMENT.STARTDATE + 7</ValueExpression>
17          </EventDestination>
18        </EventAction>
19      </RuleRef>
20      <RuleRef OID="FOLLOWUPTREATMENT2_STARTDATE_R1">
21        <EventAction IfExpressionEvaluates="true" OID="SE_FOLLOWUPTREATMENT[2]">
22          <RunOnStatus not_scheduled="true" scheduled="true" data_entry_started="false" completed="false" skipped="false" stopped="false"/>
23          <EventDestination Property="STARTDATE">
24            <ValueExpression Context="OC_RULES_V1">SE_FOLLOWUPTREATMENT.STARTDATE + 7</ValueExpression>
25          </EventDestination>
26        </EventAction>
27      </RuleRef>
28    </RuleAssignment>
29    <RuleDef OID="INITIALTREATMENT_STARTDATE_R1" Name="If Registration visit startdate is present, auto-schedules Initial visit">
30      <Description>If registration visit startdate is present, set initial visit startdate to registration visit + 4 days.</Description>
31      <Expression>SE_REGISTRATIONVISIT.STARTDATE ne "" </Expression>
32    </RuleDef>
33    <RuleDef OID="FOLLOWUPTREATMENT1_STARTDATE_R1" Name="If Initial visit startdate is present, auto-schedules first followup visit">
34      <Description>If initial visit startdate is present, set followup visit 1 startdate to initial visit + 7 days.</Description>
35      <Expression>SE_INITIALTREATMENT.STARTDATE ne "" </Expression>
36    </RuleDef>
37    <RuleDef OID="FOLLOWUPTREATMENT2_STARTDATE_R1" Name="If first followup visit startdate is present, auto-schedules second followup visit">
38      <Description>If followup visit 1 startdate is present, set followup visit2 startdate to followup visit1 + 7 days.</Description>
39      <Expression>SE_FOLLOWUPTREATMENT.STARTDATE ne "" </Expression>
40    </RuleDef>
41  </RuleImport>
```

Let's break it down (line references are based on the line numbers in the screenshot):

If Registration Visit STARTDATE is entered, schedule all subsequent visits. Users will see the whole schedule from the beginning; changes to Event dates do not automatically update subsequent Event dates.

1. **Line 3:** The Target, or trigger, is the OID for the Registration Visit STARTDATE.

```
3 | <Target Context="OC_RULES_V1">SE_REGISTRATIONVISIT.STARTDATE</Target>
```

2. **Lines 29-31:** The RuleDef (INITIALTREATMENT_STARTDATE_R1) defines what condition must be met in order for the rule to fire. In this case, **(Line 31)** Registration Visit STARTDATE is not empty.

```
29 | <RuleDef OID="INITIALTREATMENT_STARTDATE_R1" Name="If Registration visit startdate is present, auto-schedules Initial visit">
30 |   <Description>If registration visit startdate is present, set initial visit startdate to registration visit + 4 days.</Description>
31 |   <Expression>SE_REGISTRATIONVISIT.STARTDATE ne "" </Expression>
32 | </RuleDef>
```

3. **Line 4:** The RuleRef applies that INITIALTREATMENT_STARTDATE_R1 expression, which either evaluates to “true” or “false.”

```
4 | <RuleRef OID="INITIALTREATMENT_STARTDATE_R1">
```

4. **Lines 5-8:** **Line 5:** If the expression evaluates to “true,” and the Initial Treatment event (OID SE_INITIALTREATMENT) **(Line 6)** status is either “not_scheduled” or “scheduled” then set the **(Line 7)** SE_INITIALTREATMENT. STARTDATE to **(Line 8)** four days after the Registration Visit.

```
4 | <RuleRef OID="INITIALTREATMENT_STARTDATE_R1">
5 |   <EventAction IfExpressionEvaluates="true" OID="SE_INITIALTREATMENT">
6 |     <RunOnStatus not_scheduled="true" scheduled="true" data_entry_started="false" completed="false" skipped="false" stopped="false"/>
7 |     <EventDestination Property="STARTDATE">
8 |       <ValueExpression Context="OC_RULES_V1">SE_REGISTRATIONVISIT.STARTDATE + 4</ValueExpression>
9 |     </EventDestination>
10 |   </EventAction>
11 | </RuleRef>
```

Based on that same Target **(Line 3)** – Registration Visit STARTDATE), additional RuleDefs have been created (see **Lines 33 and 37**) and then assigned in RuleRefs (see **Lines 12 and 20**) to schedule subsequent events (Follow Up Treatment 1 and Follow Up Treatment 2). Because the Rule is executed based on ONE target (Registration Visit STARTDATE), if the Initial Treatment STARTDATE is changed afterwards, this rule will not execute and subsequent visits will NOT be automatically rescheduled.