		BEFORE	AFTER
UPDATE	CONTEXT	The number of patients accepted for dermatitis treatments should not exceed 60 per day.	The number of patients accepted for melanoma treatments should not exceed 60 per day.
	CONNECTION	At 12:00, the average readout of all meters should have a value less than X	At 14:00, the average readout of all meters should have a value less than X
	CONDITION	When starting the read-out of 00:00 values, all meters should be read out within 6 hours.	When starting the read-out of 00:00, 99% of all meters should be read out within 5 hours.
	BEHAVIOR	For 100 (simultaneous) ad hoc readouts , if 10 meter checks exceed 6 hours then send an alert.	For 100 (simultaneous) ad hoc readouts , if 10 meter checks exceed 6 hours then stop the readouts.

Figure 1: ISC Monitor

1 Change Operation: Update

The update can be seen as a composition of two change operations; i.e., Delete and Add. However, complexity wise using an atomic Update operation is less costly than deleting the existing ISC or part of it and adding the new one afterwards.

Update Context Updating a context implies replacing one of the existing contexts of an ISC by a new one. This assumes that the new context (i.e., process) provides the connections; e.g., event types specified and required for the checking of corresponding the ISC. In Fig. 1 (CONTEXT), the context *dermatitis treatment process* has been replaced by the *melanoma treatment process*. This implies counting the melanoma patients instead of the dermatitis patients for the day. The same event type *patient admission* is provided by both processes.

Update Connection Updating a connection replaces an event type by an another. This implies either changing a time trigger or a process relate event; e.g; task execution. The new connection should be provided by at least one of the contexts specified within the updated ISC. In Fig. 1 (CONNECTION), the time trigger has been changed from checking the conditions; i.e., average readout less than x, at 12:00 to 14:00.

Update Condition A part or an entire condition might be updated. The update here goes from a simple update of a value within the condition to replacing the whole condition. However, after update, the condition should still refer to event types specified in the changed ISC. In Fig. 1 (CONDITION), the condition on the number of successful readouts as well as the duration has changed to 99% instead of 100% (all) and 5 instead of 6 hours respectively.

Update Behavior A behavior is the action to be triggered when an ISC fires. updating the latter implies replacing an action or a part of it by a new one. In Fig. 1 (BEHAVIOR), instead of sending an alert, the readout instances are stopped