ITU - Telecommunication Standardization Sector

Temporary Document SAxx-E

STUDY GROUP 10

Original: English

Sophia Antipolis, 98.10.20 - 98.10.23

Question: 9 (MSC)

SOURCE: RAPPORTEUR

TITLE: AFTER "after"

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Summary

At the ITU meeting in Berlin there where some changes approved to align the textual grammar with the one in Annex B. One of the changes was not correct (Annex B should be corrected in the same manner).

Proposed correction

The changes below refers to change 7-AB in B909 "LALR (1) grammar aligned with Annex B"

before and after should have <order dest lists> in the <orderable event>

on gates **before** should have <order dest> and **after** <order dest list>

Suppose we have a specification:

```
msc m;
gate g1;
a : instance;
action 'x:=1' before g1;
endinstance;
b : instance;
action 'x:=2' before g1;
endinstance;
endmsc m;
```

If we rewrite it using 'after' keyword (as required in the Annex B) we obtain

```
msc m;
gate g1 after 11, 12;
```

```
a : instance;
label 11; action 'x:=1' before g1;
endinstance;
b : instance;
label 12; action 'x:=2' before g1;
endinstance;
endmsc m;
```

Note, that Z.120 without the 'after' keyword is consistent, but adding the 'after' keyword requires <order dest list> in <order gate>'s. New changes are marked with "green".

Change:	
Use of keyword label, (5-GC), Name consistency (6-GC), Rule rearrangement (<end> moved closer to terminal nodes)</end>
keyword after. (7-AB)	
, (,	
<orderable event=""> ::=</orderable>	
	[< <u>event</u> name>]
	{ <message event=""> <incomplete event="" message=""> <create> <timer statement=""> <action> }</action></timer></create></incomplete></message>
	[before <event list="" name="">]</event>
condensable execute	
<orderable event="">=</orderable>	
	{ <mark>label</mark> < <u>event</u> name> ;
	{ <message event=""> <incomplete event="" message=""> <create> <timer statement=""> <action> }</action></timer></create></incomplete></message>
	[before <order dest_list="">] [after <order dest_list="">] <end></end></order></order>

4.4 Environment and Gates

Change: Use of keyword **after**, (7-AB)

<actual order in gate> ::=
</actual order in gate> ::=

Change: Use of keyword **after**, (7-AB)

<br

Change: Use of keyword **after**, (7-AB)

<inline order out gate> ::=

< <u>gate</u> name>		
[external before <order dest="">]</order>		
<inline gate="" in="" order=""> ::=</inline>		
< <u>gate</u> name> before <order dest=""></order>		
[external]		
<inline gate="" order="" out="">::=</inline>		
< <u>gate</u> name>		
[<mark>[after <order <mark="" dest="">list>]</order></mark> external before <order dest="">]</order>		
<inline gate="" in="" order=""> ::=</inline>		
< <u>gate</u> name> before <order dest=""></order>		
[external [after <order <mark="" dest="">list>]]</order>		