



**3GPP CT6 #85**

## **TS 31.130 Exports versioning**

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## TS 31.130: (U)SIM API for Java™ Card

This specification provides 3 packages:

```
uicc.usim.access  
uicc.usim.toolkit  
uicc.usim.geolocation
```

Each package is defined with its AID and contains a Major and Minor version. As defined in 3GPP TS 31.130 in Annex C: *“The Major Version shall be incremented if a change to the specification introduces byte code incompatibility with the previous version. The Minor Version shall be incremented if a change to the specification does not introduce byte code incompatibility with the previous version.”*

In 3GPP TS 31.130 the Annex C contains a table providing these informations. Additionally the 3GPP TS 31.130 release could also contain Java source code, Javadoc and exports files.

Exports files also contains their Major and Minor version to allow run time checks during application loading, to reflect the above compatibility rules regarding the content of the export.

# TS 31.130: (U)SIM API for Java™ Card

Release	Version	uicc.usim.access package A0000000871005FFFFFFFFF8913100000			uicc.usim.toolkit package A0000000871005FFFFFFFFF8913200000			uicc.usim.geolocation A0000000871005FFFFFFFFF8913300000		
		Annex C	Export	binary	Annex C	Export	binary	Annex C	Export	binary
9	9.4.0	1.0	1.3	a	1.8	1.7	b	missing	1.0	
	9.3.0	1.0	missing	missing	1.2	missing	missing	missing	missing	
	9.2.0	1.0	1.3	a	1.2	1.6	a	missing	1.0	
	9.1.1	1.0	1.3	a	1.2	1.6	a	missing	1.0	
	9.1.0	1.0	1.3	a	1.2	1.6	a	missing	1.0	
	9.0.0	1.0	missing	missing	1.2	missing	missing	missing	missing	
8	8.3.0	1.0	missing	missing	1.2	missing	missing			
	8.2.0	1.0	missing	missing	1.2	missing	missing			
	8.1.0	1.0	missing	missing	1.2	missing	missing			
	8.0.0	1.0	missing	missing	1.2	missing	missing			
7	7.9.0	1.0	missing	missing	1.2	missing	missing			
	7.8.0	1.0	missing	missing	1.2	missing	missing			
	7.7.1	1.0	1.1	c	1.2	1.3	f			
	7.7.0	1.0	missing	missing	1.2	missing	missing			
	7.6.0	1.0	1.0	d	1.2	1.2	g			
	7.5.0	1.0	1.0	d	1.2	1.2	g			
	7.4.0	1.0	1.0	d	1.2	1.2	g			
	7.3.0	1.0	1.0	d	1.2	1.2	g			
	7.2.1	1.0	1.0	d	1.2	1.2	g			
	7.2.0	1.0	missing	missing	1.1	missing	missing			
7.1.0	1.0	1.0	d	1.1	1.1	h				
7.0.0	1.0	1.0	d	1.0	1.0	i				

Information from Annex C

Information from export file

Label of SHA1 export file

Inconsistency between Annex C and binary export

# TS 31.130: (U)SIM API for Java™ Card

Release	Version	uicc.usim.access package A0000000871005FFFFFFFF8913100000			uicc.usim.toolkit package A0000000871005FFFFFFFF8913200000			uicc.usim.geolocation A0000000871005FFFFFFFF8913300000	
		Annex C	Export	binary	Annex C	Export	binary	Annex C	Export
14	14.0.0	1.0	1.4	b	1.8	1.7	e	2.0	2.0
	13.3.0	1.0	1.4	b	1.8	1.7	e	2.0	2.0
	13.2.0	1.0	1.4	b	1.8	1.7	e	2.0	2.0
13	13.1.0	1.0	1.4	b	1.8	1.7	e	2.0	2.0
	13.0.0	1.0	1.4	b	1.8	1.7	e	missing	1.0
12	12.0.0	1.0	1.4	b	1.8	1.7	e	missing	1.0
11	11.0.0	1.0	missing	missing	1.8	missing	missing	missing	missing
10	10.4.0	1.0	missing	missing	1.8	missing	missing	missing	missing
	10.3.1	1.0	1.3	a	1.8	1.7	d	missing	1.0
	10.3.0	1.0	1.3	a	1.8	1.7	d	missing	1.0
	10.2.0	1.0	missing	missing	1.8	missing	missing	missing	missing
	10.1.0	1.0	1.3	a	1.7	1.7	c	missing	1.0
	10.0.0	1.0	1.3	a	1.2	1.6	a	missing	1.0
9	9.4.0	1.0	1.3	a	1.8	1.7	b	missing	1.0

Information from Annex C

Information from export file

Label of SHA1 export file

Inconsistency between Annex C and binary export

Different exports files with same versions inside

## TS 31.130: (U)SIM API for Java™ Card

Different exports with same versions (For `uicc.usim.toolkit`) doesn't necessary mean that a new minor version should have been created. A change in the export generation tool chain might be (still to be confirmed) the origin of different SHA1 fingerprints.

To identify if a minor version would have been needed, inspection of contents by using the Exp2text Oracle tool is needed between the four `uicc.usim.toolkit 1.7` packages.

How to move forward:

For `uicc.usim.access`, Annex C correction might be enough

- Should correctives CRs be issued on for all releases since the Rel 7?

For `uicc.usim.toolkit`, Annex C correction is indeed needed (in a similar way as for package `uicc.usim.access`) but how about the released binaries ?

- Should new binary packages ~~should~~ be issued in each release?
  - E.g. : 1.7c->1.8, 1.7d->1.9, 1.7e->1.A ? This would be only possible if each version includes previous ones (i.e. No version 1.7 has been corrected in a further release keeping the versioning by purpose as most likely 1.7c)...
- Or Just an “editorial advise” in earlier releases” ?

**Thank You!**

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