

Technical Specification Group Services and System Aspects  
Meeting #25, Palm Springs CA, USA, September 2004

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**Source:** MCC Team Leader ([John M Meredith](#))  
**Title:** Report of Support Team activities  
**Document for:** Information  
**Agenda Item:** 10

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## 1 Introduction

The overall message: business as usual. But carry on reading for the details ...

## 2 The Support Team

### 2.1 Departures and arrivals

As you know from MCC report at SA#24, **Per Jorgensen** left MCC at the end of June after three years with us, almost all supporting CN1. He has returned to Norway, to start a new venture with a young company running cellular networks on ferries.

Also, I can confirm that, after two and a half years supporting RAN1, **Tsukasa Sasaki** (RAN1 support) will leave MCC following this RAN plenary.

ARIB kindly offered Mr **Yoshikazu Ishii** (Panasonic) as a direct replacement for Sasaki-san, and we are lucky to have had an overlap of three months so that Yoshi has had plenty of time to familiarize himself with the modus operandi of MCC in general and the work of RAN1 in particular.

You can find his coordinates on the 3GPP web site at <http://www.3gpp.org/Support/MCC/Yoshi.htm>.

Welcome, Yoshi!



Yoshi Ishii

At SA#24, I reported that **Sang-ui Yoon** (SA2 support) would leave MCC at the end of 2004. In fact, Sang-ui will depart at the end of October and return to KTF, so this is his last SA plenary. Good luck, Sang-ui, back in Korea.

TTA has offered a replacement in the form of **Mr Seung-Dong Han**. Seung-Dong will start in mid-October.



not Seung-Dong Han and not KTF

It is possible that there will be a further departure from MCC at the end of the year, but I cannot confirm this at present. More definite news in December!

## 2.2 Organization of the Support Team

With the departure of Per, Andrijana Jurisic took over CN1 following the June plenaries. In turn, she relinquished T3 and ETSI SCP which were picked up by Friedhelm and Kimmo Kymalainen respectively.

With the departure of Sang-Ui Yoon, SA2 will pass to David Boswarthick, and CN3 will fall into the hands of Seung-Dong Han. David will take over SA2 support for its October meeting, with a graceful handover from Sang Ui. Seung-Dong will not arrive in time to take over CN3 for their meeting #33bis, so David will continue to take care of CN3 until #34 in November. Although the evil you know is always better than the evil you don't, the affected working group officials have given their blessing to this change. They have expressed their appreciation of David and Sang-Ui for the support they have given during their period of office with CN3 and SA2 respectively.

The organigram below shows the current allocation of resources to each entity within 3GPP. This chart is regularly maintained and the latest version may always be obtained from the 3GPP website at <http://www.3gpp.org/>

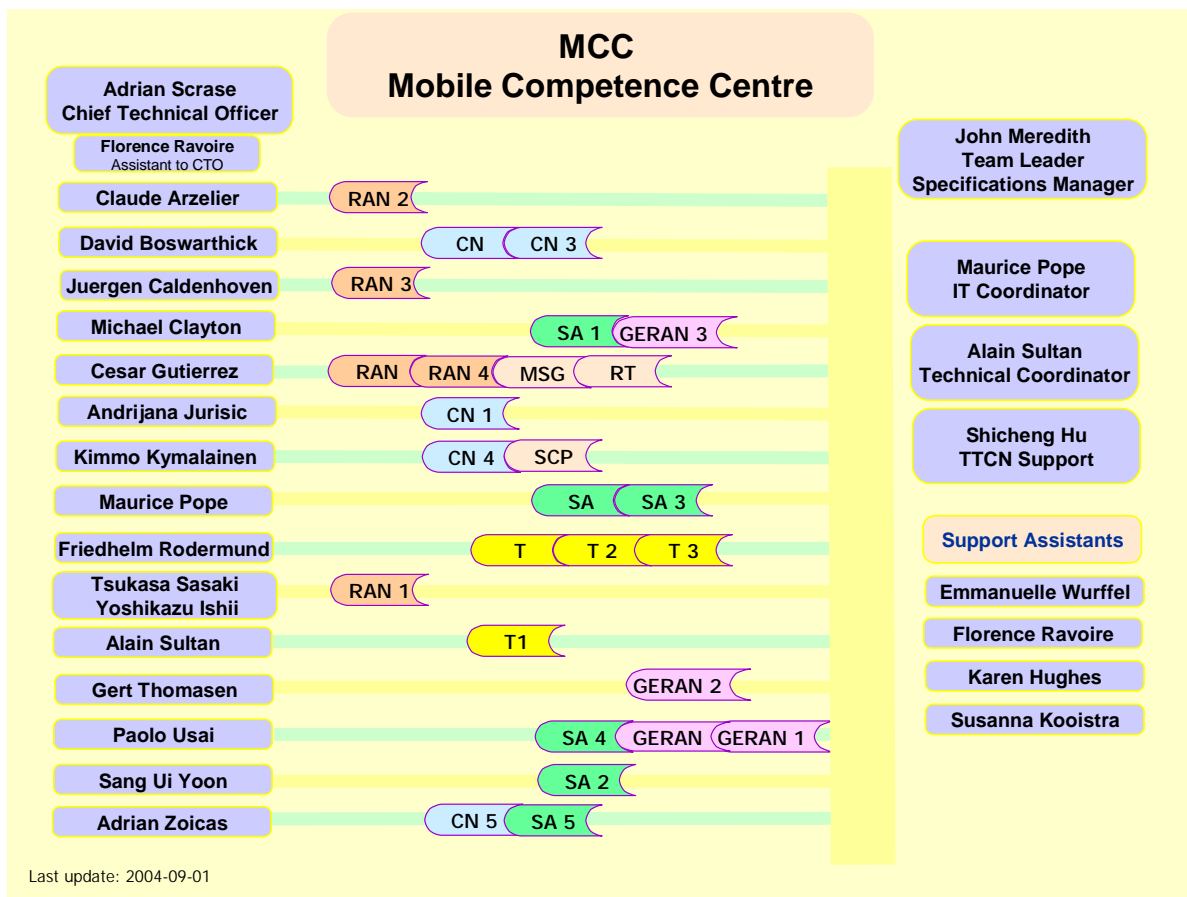


Figure 1: MCC Organizational Chart

## 3 Statistics and targets

### 3.1 Interesting statistics (yes, really)

The distribution of active specs amongst the various Releases was, prior to the start of the current TSG meetings, as follows:

**Table 1: Specs by Release**

CLASSIFICATION	NUMBER OF ACTIVE SPECS <sub>[JMM1]</sub>
GSM Phase 1	122
GSM Phase 2	182
GSM Phase 2+ Release 96	201
GSM Phase 2+ Release 97	220
GSM Phase 2+ Release 98	282
GERAN / UTRAN Release 99	440
GERAN / UTRAN Release 4	511
GERAN / UTRAN Release 5	571
GERAN / UTRAN Release 6	499
GERAN / UTRAN Release 7	11
<b>TOTAL SPECIFICATIONS</b>	<b>3039</b>

It is expected that **294** new versions of specifications will result from TSGs#25<sub>[JMM2]</sub>.

The table and chart below shows the number of approved change requests for these specifications across the different 3GPP Releases in each year of the 3GPP's life so far. In addition, it is expected that **1070 CRs** will have been approved during<sub>[JMM3]</sub> the TSGs#24 session.

The table and chart below confirm that Release 99 is now very stable, with a continuing steep decline in the number of R99 CRs being brought to plenary. The same can be said for Rel-4. The CR rate for Rel-5 is diminishing at an encouraging rate too. Rel-6 CRs are levelling out, and if the models for the previous two Releases are followed by this Release, we can expect a reduction of Rel-6 CRs in subsequent plenaries. Of course, with the freezing of Rel-6, we can anticipate a sharp rise in Rel-7 CRs over the next few plenaries.

**Table 2: CRs by year and Release**

Release / Year x <sub>[JMM4]</sub>	1999	2000	2001	2002	2003	2004 to date (excluding present round of meetings)	TOTAL
R99	1408	4398	2266	1003	581	287	<b>9943</b>
Rel-4	0	376	2828	1900	690	185	<b>5979</b>
Rel-5	0	27	644	3281	2840	1303	<b>8095</b>
Rel-6	0	0	0	171	1088	1063	<b>2322</b>
Rel-7	0	0	0	0	1	6	<b>7</b>
<b>TOTAL</b>	<b>3407</b>	<b>6801</b>	<b>7739</b>	<b>8357</b>	<b>7203</b>	<b>2844</b>	<b>26346</b>

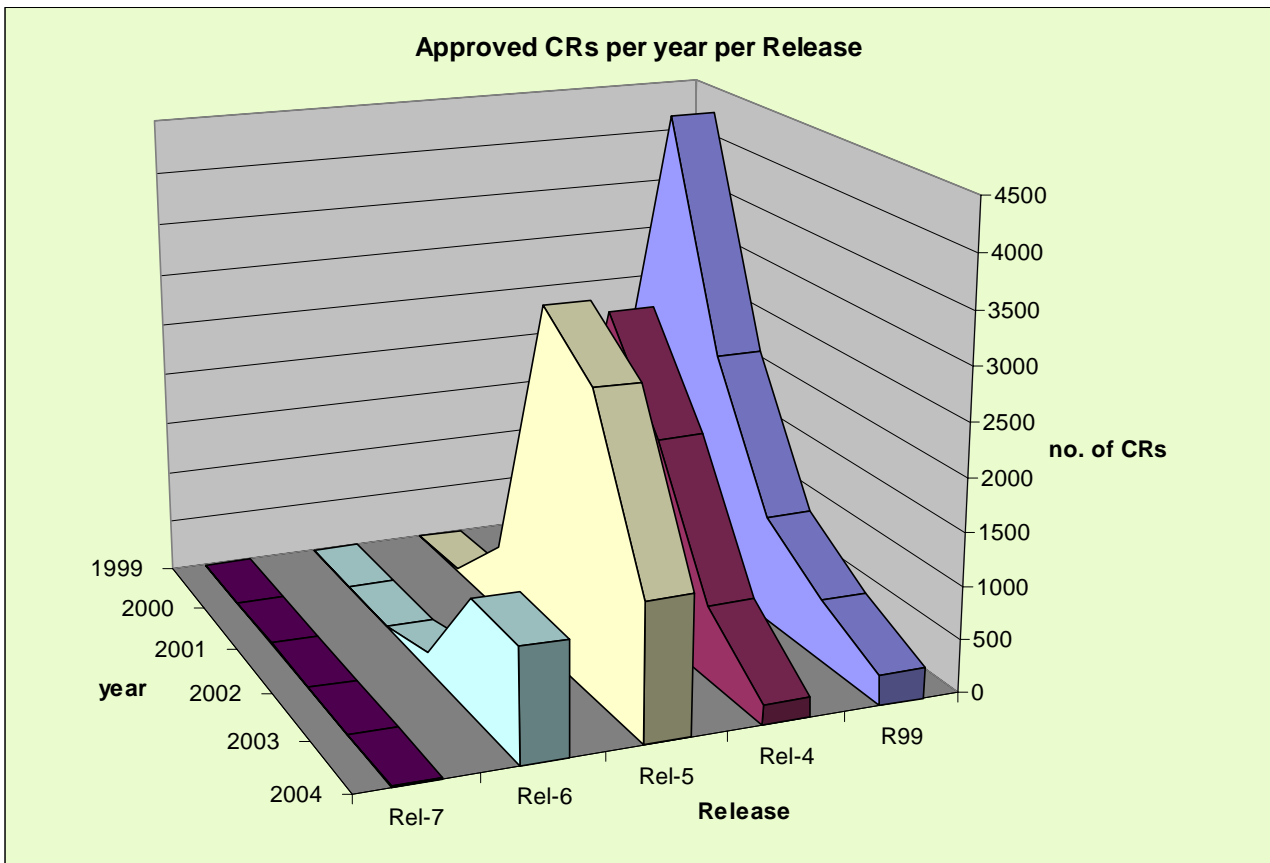


Figure 2: 3GPP CR evolution from 1999 to 2003

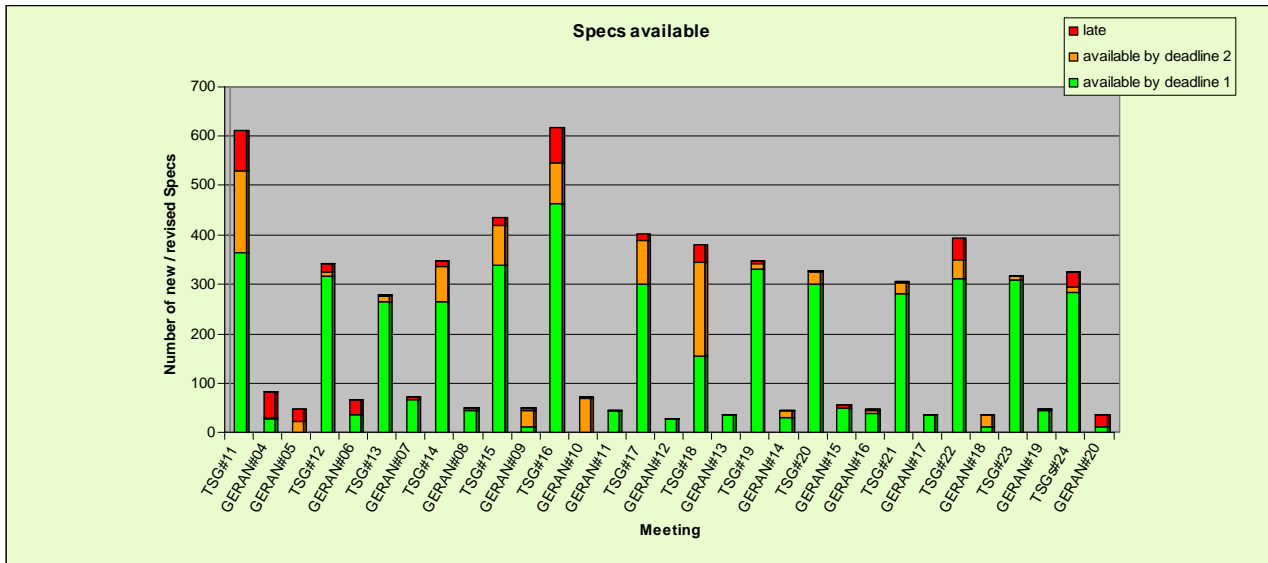
### 3.2 MCC performance

The chart below shows the speed of implementation of CRs. Performance is generally within the limits agreed with the TSGs (90% of revised specs available within two working weeks of the end of the SA meeting, the remaining 10% within a further week, allowing for resolution of implementation queries not identified earlier. For the most case, the very small number of specs which are later than this final deadline have, for the last few meetings, been as a result of forces outside the Support Team’s control (delivery of TTCN packages from member organizations). In fact, by appropriate prioritization, all specs have been made available in plenty of time for the next meeting of the responsible working group, so as not to delay their work, regardless of these formal deadlines.

The exceptionally large number of late revised specs following TSGs#24 was due to circumstances beyond the control of MCC, so I plead guilty but with mitigating circumstances. But I make no excuse for the late specs following GERAN#20.

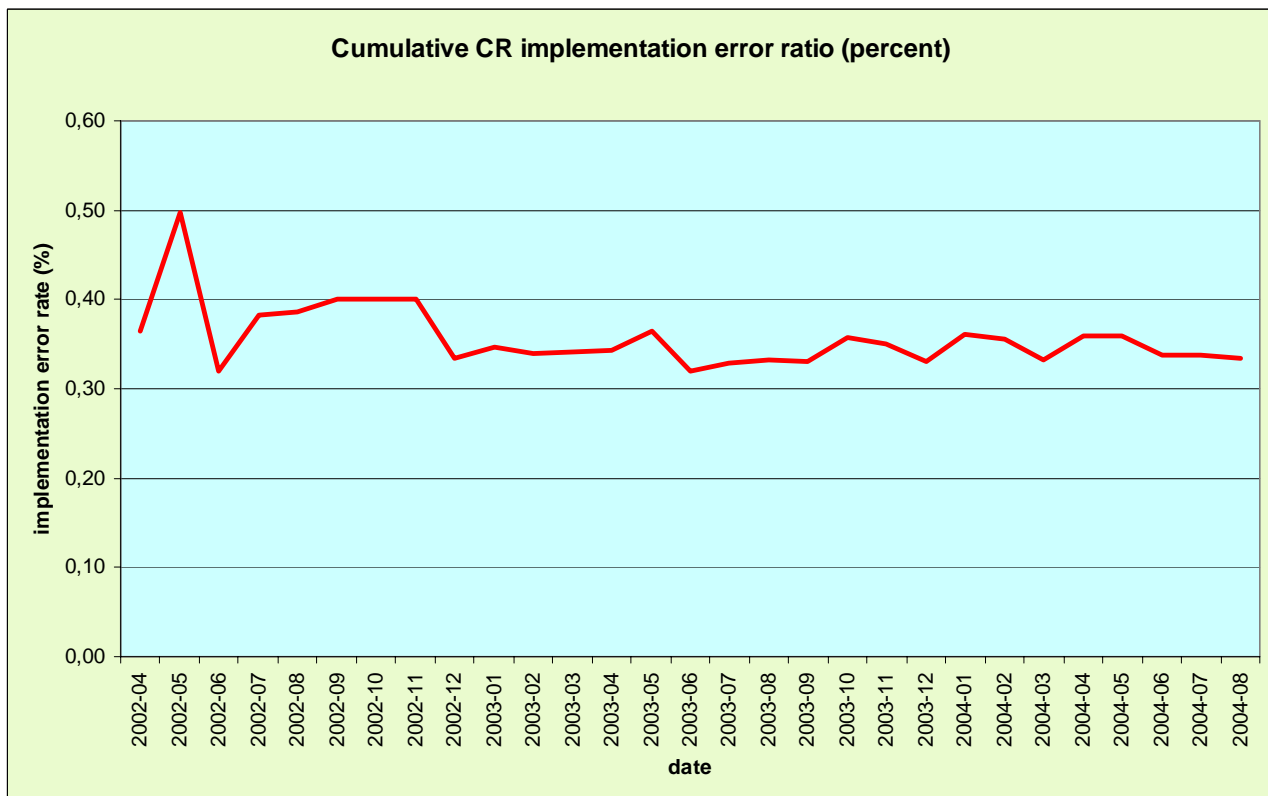
It has been brought into question whether, having proved that we can generally meet these (admittedly rather arbitrary) deadlines on a fairly consistent basis, it is necessary to continue to measure and record them. I agree that the more important question is whether revised specs are available in due time for the next working group meeting. All MCC project managers are well aware of this need, and – apart from occasional circumstances outside our control (see SP-040611) – generally meet the expectations of our working group delegates.

SA might like to discuss this question ...



**Figure 3: MCC spec production performance**

The chart below shows the cumulative error rate for the implementation of CRs. It can be seen that the error rate remains constant at approximately 3,5 errors in 1000 implementations (0,35%). Whilst every error is inconvenient for somebody somewhere, we believe that the present figure is acceptable. Doubtless the TSG and WG chairmen and delegates will tell us if they consider it not to be so!



**Figure 4: CR implementation error rate**

# 4 Release Stability

## 4.1 Change Requests

The charts below show the rolling average of the number of Change Requests per Release but excludes Category A (mirror) CRs. The charts show the continued reduction in the number of CRs for Release 99, Release 4 and Release 5 which implies an increased level of stability. Release 6 CRs have perhaps reached their peak, though a further two quarters are necessary to confirm this, and a further increment might be anticipated following functional freezing of the Release.

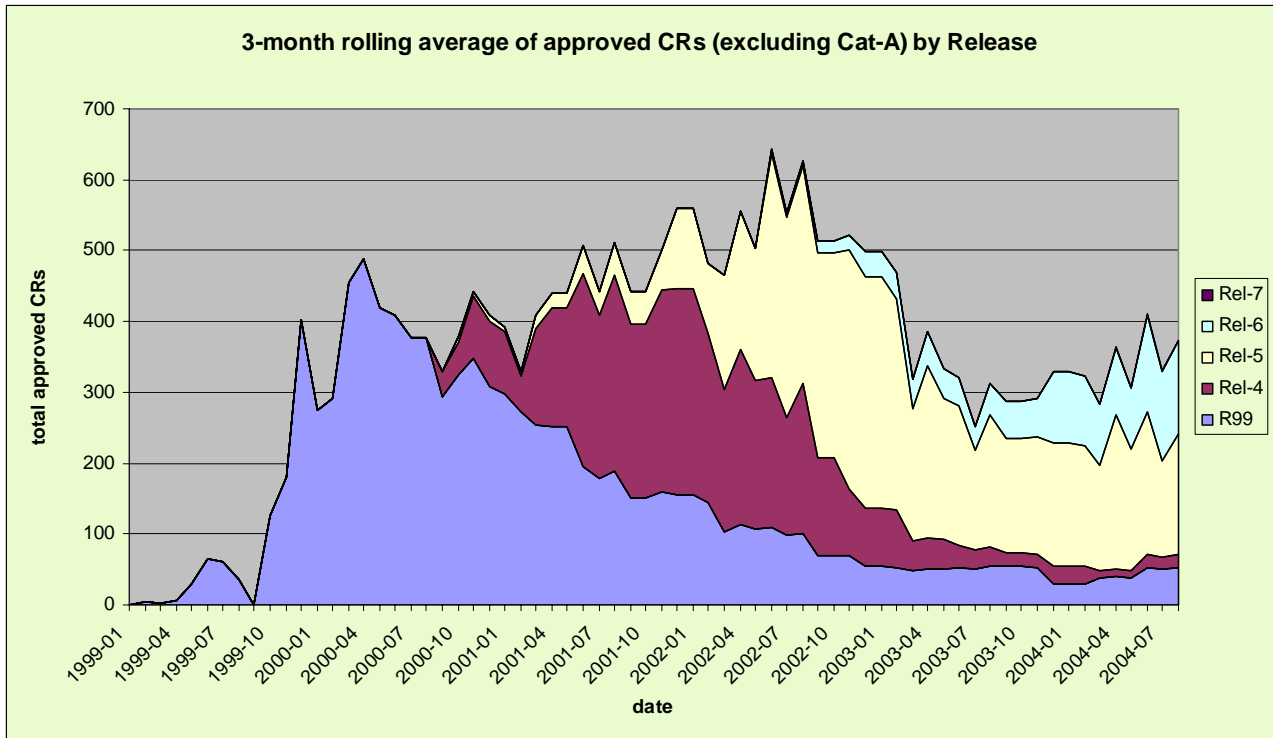


Figure 5: CR statistics (cumulative)

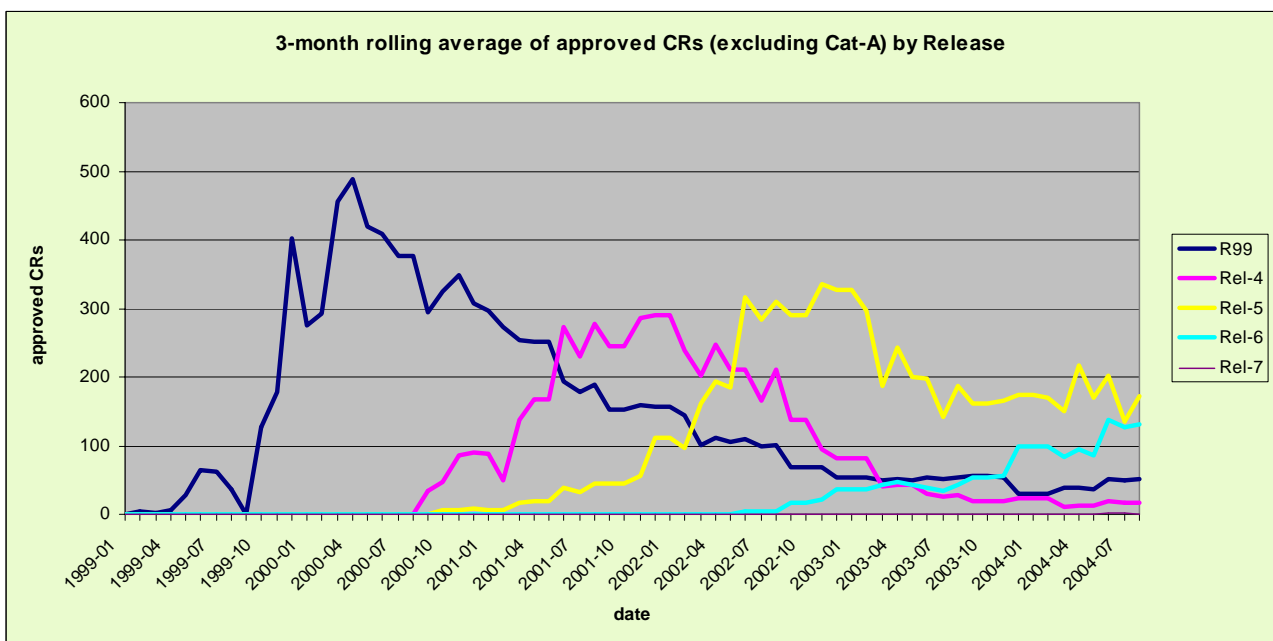


Figure 6: CR statistics

The figure below shows the overall workload on the Support Team related to CR implementation.

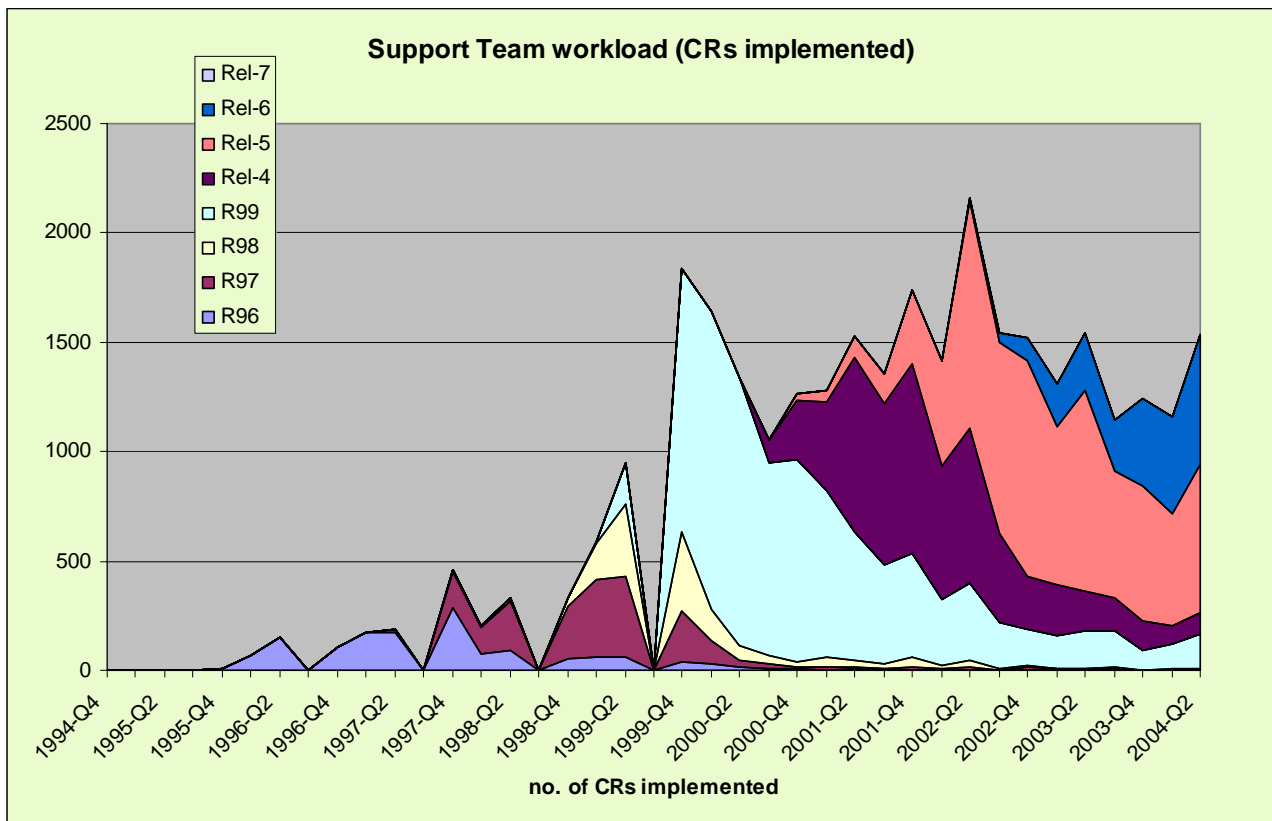


Figure : CR implementation workload

## 5 Budget 2005

A draft budget for 2005 has been prepared, based on the same costs as 2004. It has been assumed that any reorganization of TSGs will not result in an increase in costs. Of course, if the TSGs foresee any substantial change in their support requirements, they should advise the Organizational Partners accordingly.

## 6 Interesting stuff on the 3GPP web

I have been asked to remind delegates of what fascinating information is to be found on the 3GPP web site. Here I concentrate on the work plan and the specs themselves ...

The three documents describing the added functionality of Releases 99, 4 and 5 are to be found at [http://www.3gpp.org/ftp/Information/WORK\\_PLAN/Description\\_Releases/](http://www.3gpp.org/ftp/Information/WORK_PLAN/Description_Releases/). These have proved very popular.

The work plan is at [http://www.3gpp.org/ftp/Information/WORK\\_PLAN/](http://www.3gpp.org/ftp/Information/WORK_PLAN/) and can be found in several, commonly supported formats. A composite work plan at

<http://www.3gpp.org/ftp/Specs/html-info/GanttChart-Level-2.htm>

provides hyperlinks to the Work Item Description document, both current and historical. You can also obtain lists of CRs associated with each work item, a list of Specs associated with a given work item, etc. From those lists you can link to the pages of individual specs and of individual CRs. Hours of fun for all the family.

Each 3GPP Spec has its own web page, accessible via <http://www.3gpp.org/specs/numbering.htm> and from it you can get to an individual version of the spec, the file server directory containing all available versions of that spec; to the home page of the WG which owns it (and from there to all the work items and all the specs under the control of that

WG); to the CR database extract for that spec, listing all CRs pertaining to it, and from that to the individual TSG Tdocs containing the CRs themselves; and to the genealogy of the individual spec: many of the currently active specs are derived from old GSM ones dating from the paleolithic era, and quite a few modern ones have been superseded in later Releases. Days of fun for all the family.

My thanks to all my MCC colleagues for keeping this information accurate and up to date.

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## 7 Concluding remarks

In short: business as usual.

Finally, may I offer the Support Team's thanks for the warm reception we have received by the North American Friends at this meeting, and for the excellent infrastructure they and SK have provided. Oh, and for the sun and the splendid swimming pools around which to enjoy it.

See you in Greece in December.