Overview of Tango based GMRT Control system
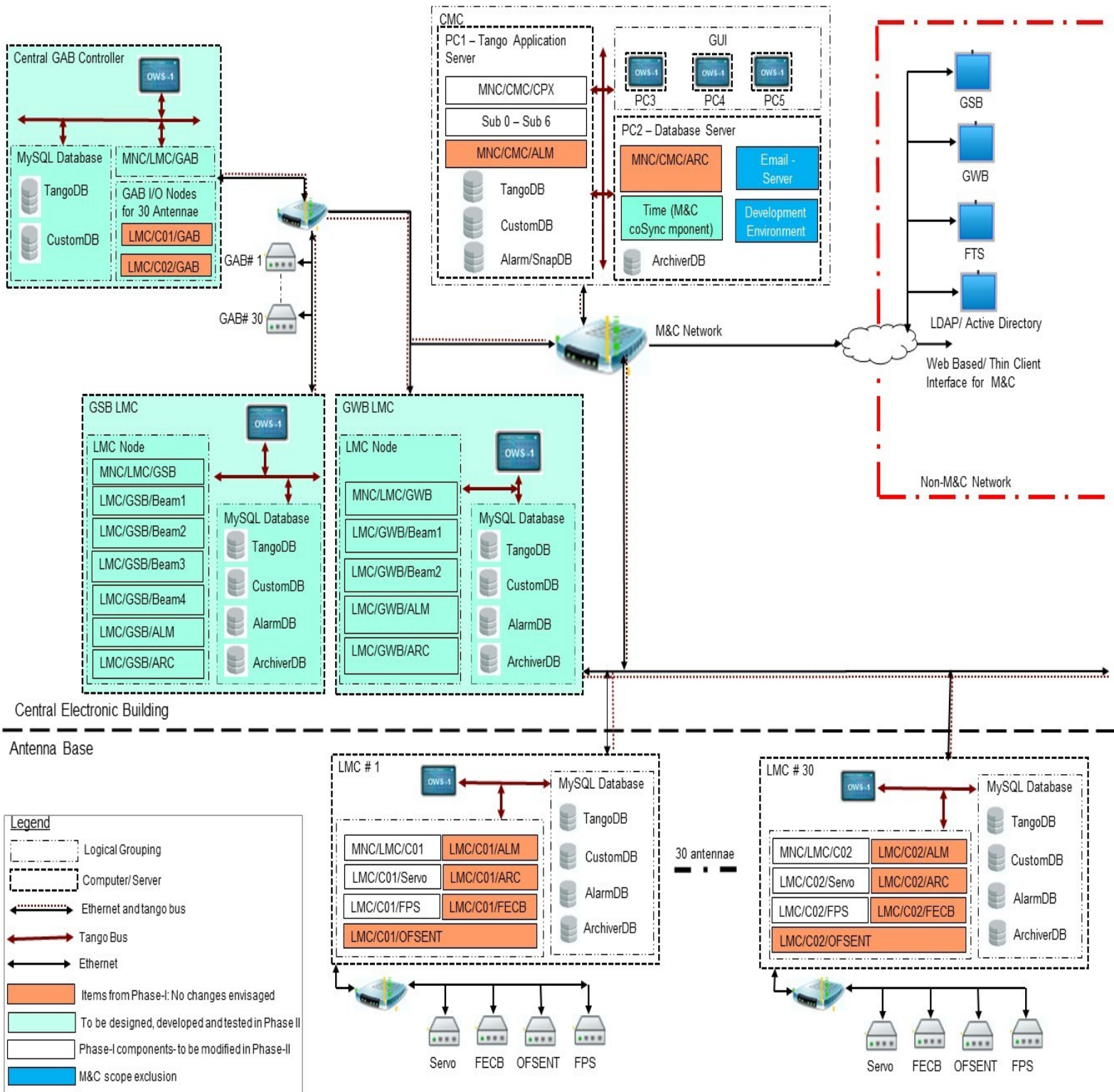
GMRT archiver details :

Version of technologies used :
1) Tango version - 9.2.2
2) HDB++ - 1.0.0
3) ZeroMq - 4.0.7
4) HDB++ viewer – 1.6
5) MySql – 5.7

Operational setup :
1. GMRT archiver has been in operation for the last two & a half years.
2. We have one central archiver server and 33 local archivers.
3. Around 17000~ attributes are archived per second.
4. Data size per local archiver amounts to 2 GB to 5 GB per day.

Issues faced :
1. Data size is quite large, which affect the overall performance of the Control system.
 => To resolve the issue, We changed the polling period of certain attributes, as well as cronjob takes care of data size.
2. We also observed that if some tango device on the tango bus is not reachable, HDB++ tries to poll the attributes and kills the IO device server. This issue may be localized to our setup.
3. In one of the Local monitoring machine, archiver server takes around 80-90% of RAM memory, which slows down the whole system. As we are yet to find the cause, we don't archive the data for that LMC.