INTEGRATION OF MEERKAT AND SKA TELESCOPES USING THE KATCP⇔TANGO TRANSLATORS
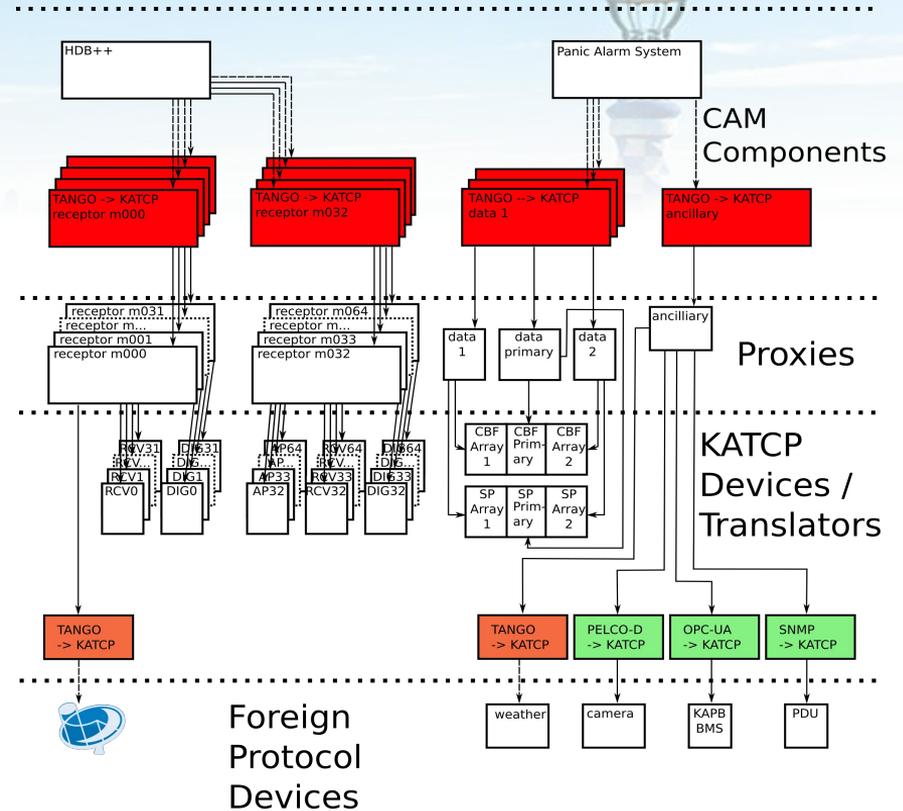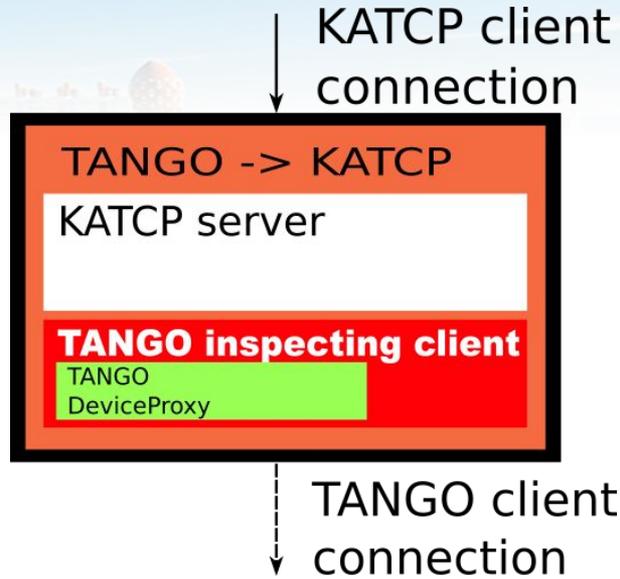
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Project Goal

- The MeerKAT radio telescope control system uses KATCP protocol and technology stack developed at SKA SA.

- The future SKA project chose the TANGO controls technology stack.

- To aid this interoperation, TANGO to KATCP and KATCP to TANGO translators were developed.

Solution outline

Conclusion

- It does not handle a TANGO device that dynamically changes its attributes or commands.

- Does not handle TANGO commands that take or return arrayed values, however this can be handled by simply using kattype with multiple=True.

- It only supports scalar attributes. KATCP does not define how sensors with 1-D or 2-D arrayed values should be handled.