

CHOC-89: Add AA layouts

SKA Regional Centre Network ART

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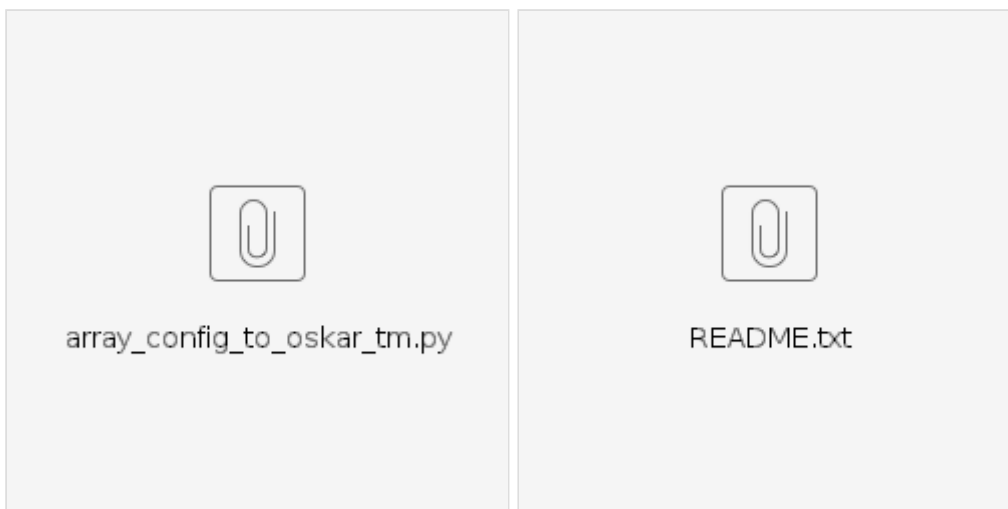
No headings included in this document

Added a script (attached to this page) to convert an [ska-ost-array-config](#)¹ array layout to an OSKAR telescope model (.tm directory), which can then be added to Karabo by copying it to karabo/data/ and adding the telescope and telescope version to karabo/simulation/telescope.py and karabo/simulation/telescope_versions.py, respectively. I decided to add each layout as a telescope, e.g. SKA-LOW-AA0.5, and use *ska-ost-array-config-[SKA_OST_ARRAY_CONFIG_PACKAGE_VERSION]* as the version, e.g. *ska-ost-array-config-2.3.1*.

Code to be adjusted:

- telescope.py: add telescope to OSKARTelescopesWithVersionType
- telescope.py: add telescope to directory name mapping to OSKAR_TELESCOPE_TO_FILENAMES
- telescope_versions.py: add versions enum, see existing enums for inspiration
- telescope.py: add telescope to versions class mapping to OSKAR_TELESCOPE_TO_VERSIONS

Setup info to run the script can be found in the attached README.



Also added all SKA-Low and SKA-Mid AA layouts to Karabo (currently in branch [MP_CHOC-91_SRCNet_run](#)², not merged yet).

Nothing done for RASCIL at this point due to <https://github.com/i4Ds/Karabo-Pipeline/issues/626>, RASCIL being retired soon and not enough time.

¹ https://gitlab.com/ska-telescope/ost/ska-ost-array-config/-/tree/master?ref_type=heads

² https://github.com/i4Ds/Karabo-Pipeline/tree/MP_CHOC-91_SRCNet_run