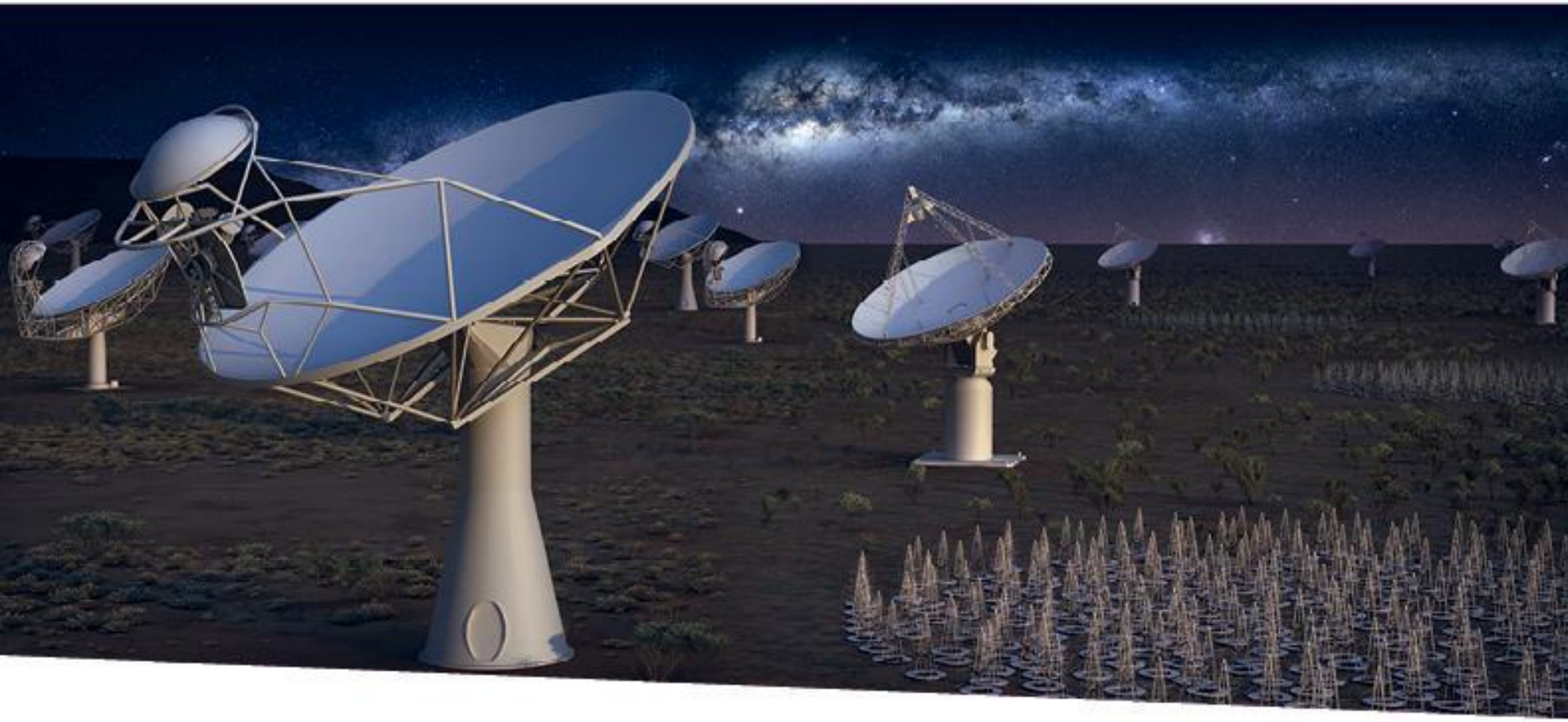
LMC ANT team kick-off

SKA LMC Harmonisation - Madrid - 11-13 April



SQUARE KILOMETRE ARRAY

Exploring the Universe with the world's largest radio telescope

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Scope

Generate **SKA Control System Guidelines** document to:

- capture generic design patterns and common approaches for LMC Harmonisation across SKA Elements
- define Tango guidelines for SKA project (replace current version)
- mature with and benefit from the Element LMC work that is happening in parallel

Update **LMC Scope & Responsibilities and LIG**:

- reword or annotate the LSR and LIG documents to clarify these in view of the Tango framework selection

It is a working document, on google drive in "Element LMC Shared Folder", document link:

- https://docs.google.com/document/d/1tm1ESSGlttsiW1xwA78UT__7f7hB0pMNBHZ7jpd2_Yg/edit#

Scope cont.

Also discuss desirability and define requirements for:

- LMC Tango Server Base Class
- SKA Tango Device Base Class

- Identify potential areas for core developments to include in future Tango versions

SKA Control System Guidelines will be populated from generic design patterns extracted by analysing:

- the use cases submitted for the LMC Harmonisation workshop (Trieste, Feb2016) and the experts' responses,
- as well as subsequent email exchanges with questions and suggestions from LMC.

Collaboration

- Anyone can submit an area for consideration or suggested solution to the LMC ANT team
- Consult widely with SKA LMC Community (especially with those that originally submitted the use case)
- Co-opt LMC community members on certain aspects as needed
- Incorporate learnings from LMC work and prototyping already performed

- SKA Control System Guidelines will be reviewed by the Tango experts

Your role:

- Review and comment on **section 1** and the **Table Of Contents** of the SKA Control System Guidelines
- Make **suggestions** to LMC ANT team for areas of LMC standardisation to include in this work
- Soon after Madrid, LMC ANT team will populate **section 2** of this document to indicate what will be covered in the initial rounds - review and comment
- Offer resources for focused **prototyping** to verify suggested solutions where possible

Timeline

- Generate the Table Of Contents and section 2 - **end April**
- Update LMC Scope & Responsibilities and LIG - **end May**
- Focused effort from ANT team to tackle issues after the Madrid workshop in **April**, **May** and **June**
- Aiming to issue a reasonable draft addressing the highest priority topics during **June** (before SPIE LMC Harmonisation workshop)

- Mature this document as LMC ANT team tackles the issues and Element LMC design work progresses - **ongoing**

Topics

Three categories of SKA design patterns:

- Integrating multiple Tango Facilities into a single instrument:
  - SKA project wide device and server naming convention
  - running standalone Element Facilities without Central Telescope Facility
  - combining real and simulated devices
- LMC and Element level standardisation (and SKA Element level base class)
- Tango device server standardisation (and SKA Tango device base class)

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Questions?