DSA-2000 Document No. 00002

Common DSA-2000 Acronyms and Initialisms

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Abstract

A list of acronyms used by DSA-200 is given with definitions. Some of these are specific to DSA-200, while others are more general. These may be cut-and-pasted into other documents as needed.

# DSA-2000 Project-specific acronyms and initialisms

|  |  |  |
| --- | --- | --- |
| Group | Acronym/initialism | Meaning |
| Subsystem (WBS Level 2) | ANT | Antenna Station |
| ASP | Analog Signal Path |
| CNW | Central Control Network |
| DAT | Timing and Synchronization |
| EPO | Education and Public Outreach |
| FAC | Facilities |
| MNC | Monitor and Control |
| OPL | Observation Planner |
| PRJ | Project |
| QAS | Quality Assurance |
| RCF | Radio Camera Frontend |
| RCP | Radio Camera Processor |
| SEQ | Support Equipment |
| SFT | Safety |
| SNW | Signal Network |
| SYS | System Level Engineering |
| TNS | Timing and Synchronization |
| Document Type | DES | Design Report |
| DWG | Drawing |
| EIS | Environmental Impact Study |
| EXT | External Document |
| ICD | Interface Control Document |
| MAN | Manual |
| MGT | Management Document |
| OTH | Other Document |
| PRG | Progress Report |
| REC | Recommendation(s) |
| REQ | Requirements Document |
| REV | Review Document |
| SPC | Specification Document |
| TST | Test Report |
|  |  |

# General acronyms, initialisms, and abbreviations

|  |  |
| --- | --- |
| AC  ADC | RCF channel output for zoom a RCP processing  Analog-to-digital converter |
| API | Application programming interface |
| BC | RCF channel output for zoom b RCP processing |
| CNC | Computer numerical control |
| CAD | Computer-aided design |
| CAM | Computer-aided machining |
| CDR | Conceptual Design Review |
| CMB | Cosmic Microwave Background |
| DSA | Deep Synoptic Array |
| DUT | Device under test |
| DSP | Digital signal processing |
| DAC | Digital-to-analog converter |
| DM | Dispersion measure |
| EMC | Electromagnetic compatibility |
| EMI | Electromagnetic interference |
| EIR | Environmental Impact Report |
| EIS | Environmental Impact Statement |
| EIS | Environmental Impact Study |
| EoR | Epoch of Re-ionization |
| XML | Extensible Markup Language |
| FC | RCP and DAT full-band output channel |
| FRB | Fast radio burst |
| FPGA | field-programmable gate array |
| FDR | Final Design Review |
| FEA | Finite-element analysis |
| FT | Fourier Transform |
| FT | Full time |
| FWHM | Full width half maximum |
| GUI | Graphical user interface |
| GPU | Graphics processing unit |
| IF | Intermediate frequency |
| JVLA | Jansky Very Large Array |
| LWA | Long-Wavelength Array |
| LNA | Low-noise amplifier |
| MP | RCP and DATA medium polarimetric output channel |
| MTTF | Mean time to failure |
| MTTR | Mean time to repair |
| NC | RCF channel output for narrow, polarimetric, and continuum RCP processing |
| NL | RCP and DATA narrow line output channel |
| NJIT | New Jersey Institute of Technology |
| NAU | Northern Arizona University |
| OVRO | Owens Valley Radio Observatory |
| PT | Part time |
| PSF | Point-spread function |
| PFB | Polyphase filterbank |
| PDR | Preliminary Design Review |
| PEP | Project Execution Plan |
| QA | Quality assurance |
| QC | Quality control |
| P1dB | 1-dB intercept point |
| RCI | Raddo Camera Initiative |
| RF | Radio frequency |
| RFI | Radio -frequency interference |
| RFSoC | Radio-frequency system on a chip |
| RAM | Random-access memory |
| ROM | Read-only memory |
| RTS | Real-time system |
| RFI | Request for Information |
| RFQ | Request for Quotation |
| RIG | Research Infrastructure Guide |
| RMS | Root-mean-square |
| SKA | Square Kilometer Array |
| TAC | Technical Advisory Committee |
| TC | RCF channel output for pulsar timing |
| TCPIP | Transmission Control Protocol Internet Protocol |
| UA | University of Arizona |
| UNM | University of New Mexico |
| UDP | User Datagram Protocol |
| VLA | Very Large Array |
| WC | RCP and DAT wide-band output channel |
| WBS | Work breakdown structure |
| ZA | RCP and DAT zoom a output channel |
| ZB | RCP and DAT zoom b output channel |