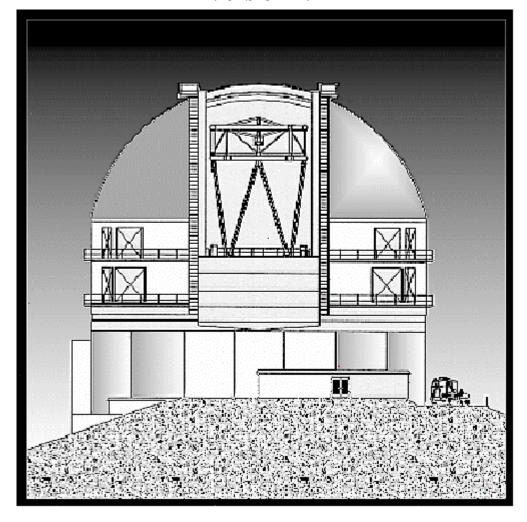


Gemini Acronym Glossary Version 1.1



R. KnealeSystems Engineering

March 5, 1996

GEMINI PROJECT OFFICE 950 N. Cherry Ave. Tucson, Arizona 85719

Phone: (520) 318-8545 Fax: (520) 318-8590

Gemini Acronym Glossary

Acronym Definition

A&G Acquisition and Guiding

A&GCS Acquisition and Guiding Control System

AA Aluminum Association

aai EPICS array analogue input record

AAMA Architectural Aluminum Manufacturers' Association

aao EPICS array analogue output record AAO Anglo-Australian Observatory ACI American Concrete Institute

ADAM Astronomical Data Acquisition/Analysis Monitor

ADC Analog to digital signal converter

Ag Silver

ai EPICS analogue input record

AISC American Institute of Steel Construction, Inc.

AISI American Iron and Steel Institute

Al Aluminum

ALH EPICS Alarm Handler

ao EPICS analogue output record

aO Active Optics AO Adaptive Optics

AOC-G AURA Oversight Committee for Gemini

AOCS Adaptive Optics Control System APA American Plywood Assocation

APD Avalanche PhotoDiode

APS Advanced Photon Source (at ANL)

APSS Air Pressure Support System

AR EPICS archiving tool

ARG Argument structure processing routines; part of SDS

ARR EPICS archive retrieval tool

AS Astronomer requesting science data ASCE American Society of Civil Engineers

ASCII American Standard Code for Information Interchange

ASHRAE American Society of Heating, Refrigerating, and Air Conditioning Engineers,

Inc.

ASTM American Society for Testing and Materials

ATM Asynchrous Transfer Mode

AtmDC Atmospheric Dispersion Compensator

AURA Association for Universities for Research in Astronomy

AVL Attribute/Value Layer

AWS American Welding Society, Inc.

BNF Backus Naur Form

BNL Brookhaven National Laboratory

BRDF Bidirectional Reflectance Distribution Factor

CA EPICS channel access

CA client A program that accesses an EPICS database through CA CA server A program that provides access to an EPICS database

CAD EPICS command action directive

CAD Computer Aided Design

CADC Canadian Astronomy Data Centre

CAN Controller Area Network

CAR EPICS command action response

CASE Computer-Aided Software Engineering

CATS Collaborative Access Teams
CC Components Controller
CCD Charge Coupled Device
CCP Carousel Control Panel
CCS Configurable Control System

CDR Critical Design Review

CEBAF Continuous Electron Beam Accelerator Facility

CFHT Canada-France-Hawaii Telescope CFRP Carbon Fiber Reinforced Plastic

CI Configuration Item

CICS Core-Instrument Control System

CG Center of Gravity

CLUI Command Line User Interface
CLS Command Layer Server
CM Configuration Management
CoDR Conceptual Design Review

CoDR Conceptual Design CP Cerro Pachon

CR

CRCS Cassegrain Rotator Control System
CRSI Concrete Reinforcing Steel Institute

Cassegrain Rotator

CS Commercial Standard, US Department of Commerce

CTIO Cerro Tololo Interamerican Observatory

CVD Chemical Vapor Deposition

DAO Dominican Astrophysical Observatory

DBMS Database management system
DAC Digital to Analog Converter

DC Direct Current

DC Detector Array Controller

DC Offset Constant Offset

DCT EPICS Database Configuration Tool

DHS Data Handling System

dec Declination

DESY Deutsches Elektronen-Synchrotron

DFD Data Flow Diagram
DHS Data Handling System

DITS Distributed Instrumentation Tasking System

dm EPICS display manager tool

DM Deformable Mirror

DOE Distributed Objects Everywhere

DOF Degree of Freedom

DRAL Daresbury and Rutherford-Appleton Laboratories
DRAMA Distributed Real-time AAO Monitor for Astronomy

DSD Data Structure Diagram ECS Enclosure Control System

edd EPICS database control screen editor

ee Encircled Energy

EL Elevation

EPICS Experimental Physics and Industrial Control System

ERD Entity Relationship Diagram
ESO European Southern Observatory
FDDI Fiber Distributed Data Network

FEA Finite Element Analysis

FITS Flexible Image Transport System

FOC Fiber Optic Cable FOG Fiber Optic Gyro FOV Field of View FPA Focal Plane Array

FPRD Functional and Performance Requirements Document FS Federal Specification of General Services Administration

FWHM Full-Width at Half-Maximum GAOS Gemini Adaptive Optics System

GBD Guidance and Beam Direction system (A&G)

GCS Gemini Control System
GIS Gemini Interlock System

GMOS Gemini Multi-Object Spectrograph

GP Gemini Project

GPCS Gemini Project Controls System

GPO Gemini Project Office GPS Global Positioning System

GS Gemini system

GSC Gemini Science Committee

GSCG Gemini Software and Controls Group GSCP Gemini Software and Controls Project

GSR Gemini Science Requirements

GTA Ground Test Accelerator
GUI Graphical User Interface

GWPR Gemini Work Package Responsible

HDF Hierarchal Data Format HDS Hierarchal Data System

HOS High-level Operations Software

HROS High Resolution Optical Spectrograph HRWFS High Resolution Wavefront Sensor

HRWFS/AC High Resolution Wavefront Sensor Acquisition Camera

I/O Input/Output

IAW In Accordance With IC Integrated Control

ICD Interface Control DocumentICE Inter-Client ExchangeICS Instrument Control System

ID Identifier

IDL Interactive Data Language

IEEE Institute of Electrical and Electronic Engineers

IERS International Earth Rotation Service

IRIG-B Inter-Range Instrumentation Group, Standard B

IGPO International Gemini Project Office IMP Interprocess Message Passing System

IOC Input/Output Controller IPC Interprocess Communication

IR Infrared

IRAF Image Reduction and Analysis Facility

IS Instrument Sequencer

ISDN Integrated Services Digital Network

ISS Instrument Support Structure

ISO International Standards Organization

IVD Ion-beam Vapor Deposition
JACH Joint Astronomy Centre Hilo
JCMT James Clerk Maxwell Telescope

JD Julian Date

JNLT Japanese Large National Telescope (Subaru)

KPNO Kitt Peak National Observatory

LAN Local Area Network

LANL Los Alamos National Laboratory
LBL Lawrence Berkeley Laboratory

LOS Line of Sight
LRG Laser Ring Gyro
LUT Look Up Tables
M1 Primary Mirror
M2 Secondary Mirror

M3 Engineering in Tucson, Arizona (not a tertiary mirror)

MCS Mount Control System
MCSF Mirror Cell Support Frame

MIL Military Specification of US Department of Defense

MIR Mid-Infrared

MK Mauna Kea

MOS Multi-Object Spectrograph MPC Multi-point Constraint

MSBI Major Systems Baseline Interface

NAAMM National Association of Architectural Metal Manufacturers

N/A Not Applicable NCU Node Control Unit

NDF Extensible N-dimensional Data Format

NDI Normalized Detector Irradiance

NEC National Electric Code

NEMA National Electrical Manufacturers' Association

NFPA National Fire Protection Association

NFS Network File System

NIR Near-Infrared NIRI Near IR Imager

NIRS Near-Infrared Spectrograph

NIST National Institute for Science and Technology NOAO National Optical Astronomy Observatories NPST Normalized Point Source Transmittance

NSF National Science Foundation NTP Network Time Protocol NTS Network Time Service

OB On-site observer (may also be the astronomer)

OCC Optical Components Controller OCS Observatory Control System

ODB Observing Database

OIWFS On-Instrument Wavefront Sensor

OPI Operator Interface O/S Operating System

OSS Optical Support Structure

OT Observing Tool

PCRB Program Change Review Board PCS Primary Mirror Control System

PDF Packet Description File PDR Preliminary Design Review PMA Primary Mirror Assembly

PMAC Programmable Multi-Axis Controller

PPARC Particle Physics and Astronomy Research Council

PRS Package Requirement Specification

PS Product Standard of National Bureau of Standards

PSF Point Spread Function
PSS Passive Support System
PST Point Source Transmittance
PTC Primary Thermal Control

PTP Package Test Procedure
PVD Physical Vapor Deposition
PWFS Peripheral Wavefront Sensor

QA Quality Assurance QC Quality Control RA Right Ascension

RAM Random Access Memory

RAL Rutherford-Appleton Laboratory (see DRAL)

RC Richey-Chrétien

RDBMS Relational database management system

RF Radio Frequency

RGO Royal Greenwich Observatory

RMS Root Mean Squared RO Royal Observatories

ROE Royal Observatory Edinburgh

ROM Read-Only Memory
RPC Remote Procedure Call
RSS Root Sum Squared

RTAP Real Time Applications Platform

RTE Real Time Engineer

RTOS Real Time Operating System

Rx Rotation about x axis
Ry Rotation about y axis
Rz Rotation about z axis
SAD Status and Alarm Database

SC Standard Controller

SCCP Software Configuration Control Plan

SCA Sensor Chip Assembly SCE Servo Control Engineer

SCS Secondary (M2) Control System
SDD Software Design Description
SDR System Design Review

SDS Self-defining Data System

SE Sequence Executor

SEM Scanning Electron Microscope SHA Seismic Hazard Analysis

SiC Silicon Carbide

SIC Standard Instrument Controller
SIR Status/Information Record (EPICS)
SIS Sub-arcsecond Imaging Spectrograph

SMACNA Sheet Metal and Air Conditioning Contractors' National Association, Inc.

SMP Software Management Plan

SPIE Society of Physical and Industrial Engineers

SPS Software Programming Standards

SQL Structured Query Language

SRS Software Requirements Specification

SSCL Superconducting Super Collider Laboratory

SSE System Software Engineer

SSPC Steel Structures Painting Council STARCAT Space Telescope Archive and Catalog

STD State Transition Diagram Synchro Bus Synchronization Bus

TAI International Atomic Time

TBD To Be Determined
TBP To Be Provided
TBR To Be Resolved

Tcl Tool Command Language TCS Telescope Control System

TCP/IP Transmission Control Protocol/Internet Protocol

Tk Tcl Tool kit

TMS Thermal Management System TTL Transistor-transistor Logic

Tx Translation in x
Ty Translation in y
Tz Translation in z

UBC Uniform Building Code

UDP/IP User Datagram Protocol/Internet Protocol

UHV Ultra High Vacuum UK United Kingdom

UKIRT United Kingdom Infrared Telescope
UL Underwriters' Laboratories, Inc.

ULE Ultra Low Expansion

UOS Unless Otherwise Specified
USA United States of America
UTC Coordinated Universal Time

UV Ultraviolet

VDD Version Description Document

Vis Visible

VLT ESO's Very Large Telescope

VME A real-time system obeying the ANSI/IEEE 1014-1987 Versatile Backplane Bus

Standard

VMIC Name of Vendor of Reflective Memory for Synchro Bus

VOS Virtual Observatory System
VSI Virtual System Interface
VUI Visible User Interface

VxWorks A real-time operating system from WindRiver Systems (WRS)

WAN Wide Area Network WFS Wavefront Sensor

WHT William Herschel Telescope

WI Without Interruption

WiFOS Wide Field Faint Object Spectrograph

WMKO William M. Keck Observatories

WP Work Package

WPM Work Package Manager WPR Work Package Responsibles

WYFFOS WHT's Wide Field Faint Object Spectrograph