ICD-20

Synchro Bus - Node specifications

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Revision Control

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Chapter 1 Introduction

1–1.0 Document purpose

The purpose of this document is to give a list with identification number of all the subsystems connected to the synchrobus.

This document is dedicated to the gemini Developers.

1–2.0 Definition, Acronyms and Abbreviations

A&G	Acquisition and Guidance
EPICS	Experimental Physics and Industrial Control System
GAOS	Gemini Adaptive Optics System or Altair
LGSCS	Laser Guide Star Control System
LS	Laser System
M2	Gemini Secondary Mirror
OIWFS	On-instrument Wavefront Sensor
PWFS	Peripheral WFS
SCS	Secondary Control System

1–3.0 References

[1] *ICD10 - EPICS Synchro Bus Driver,* A N Johnson

[2] *ICD 1.4.2/1.4.4 - The SCS to positionning and tilt systems interface control document,* S Prior

[3] *ICD 1.4.4/1.6 - A&G to SCS Interface,* M J Paterson

[4] I*CD 1.13.8/1.13.5 Altair to LGS Control System ICD,* L Sadldlemyer

[5] *ICD 1.1/1.3.8 Telescope Systems to Altair Upgrades,* L Sadldlemyer

Chapter 2 List of the subsystems

TABLE 1. List of the subsystems

Systems	Node number
SCS	0
M2	1
PWFS1	2
PWFS2	3
OIWFS	4
GAOS (ALTAIR)	5
LGSCS	6
Laser System	7

The reflective memory area is conceptually divided into pages of size 1 Kbyte. Page allocation and page description are given in each ICD documents:

- ICD [2]: gives a description of pages dedicated to transfer data between SCS and M2

- ICD [3]: gives a description of page allocation and a description of pages dedicated to transfer data between SCS and A&G

- ICD [4]: gives a description of pages dedicated to transfer data between Altair or GAOS and the LGS Control System

- ICD [5]: gives a description of pages dedicated to transfer data between Altair and the A&G