SEST LAN

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Chapter 1

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1.1 Networks

We have three computer networks at SEST: the *control network* (134.171.148.*) for the telescope control system, the *bolometer network* (192.168.0.*) for the bolometer and the *office network* (134.171.128.*) for all others computers. The first two networks are for time-critical systems and they are both coaxial-cable nets. None of them are available to computers outside the SEST building.

1.1.1 The control network

The control network (134.171.148.*) is a coaxial-cable network. The computers connected to it are all involved in telescope or instrument control. It is a time-critical network that should not be loaded with tasks besides the necessary ones. Although a list of the computers on the control network has been added to the official La Silla DNS server, it is not accessible from outside the SEST building. The control network is available in the cabin, the pedestal, the control room, the correlator room, the AOS room and the terminal room.

The gateway to the office network is PUPPIS which on the control network is called GWPUPPIS and has the IP-address 134.171.148.1. The gateway to the bolometer network is through MUSCA (134.171.148.22). None of the computers on the control network know that these two machines are gateways to other networks. The routing is thus set-up without any default machine to route communication outside the control network to. The exceptions are VELA and VOLANS which both have host-based routing to CARINA (134.171.128.12) through PUPPIS. CARINA is thus the only computer besides PUPPIS that can access parts of the control network.

Name	IP-address	Type	Location
GWPUPPIS	134.171.148.1	HP-720 work station	terminal room
CORVUS	134.171.148.7	???	???
VOLANS	134.171.148.11	HP-735 work station	control room
VELA	134.171.148.14	HP-778 work station	control room
MUSCA	134.171.148.22	Linux PC	control room
SCORPIUS	134.171.148.23	Linux PC	AOS room
CETUS	134.171.148.24	Linux PC	control room
PYXIS	134.171.148.25	*spare*	
ANTLIA	134.171.148.45	VME OS-9	pedestal
ICCNTRL	134.171.148.46	VME OS-9	control room
ICCABIN	134.171.148.47	VME OS-9	cabin
CRUX	134.171.148.50	Linux PC	correlator room
LEPUS	134.171.148.51	*spare*	
CRATER	134.171.148.52	*spare*	
VINCHUCA	134.171.148.23	cold spare for SCORPIUS	AOS room

1.1.2 The bolometer network

The bolometer network (192.168.0.*) is a coaxial-cable network for control and data transmission from the SIMBA bolometer array. It is a highly time-critical network. It only consists of two computers: the BOGLE data collecting unit and the data formatting PC MUSCA. The bolometer network is connected to the control network via MUSCA but can't be accessed at all from the outside. It does not appear on the La Silla DNS-server.

Name	IP-address	Type	Location
MUSCA	192.168.0.1	Linux PC	control room
BOGLE	192.168.0.2	???	cabin

1.1.3 The office network

The office network (134.171.128.*) is used for all computers that are not directly involved in the observations. It physically consists of two parts: a new twisted-pair network with 33 connections and an old coaxial-cable network. It is available in all rooms of the SEST control building.

It is connected to La Silla back-bone through the GWYSES router (134.171.128.1) and to the control network via PUPPIS (134.171.128.13), although the latter one is not accessible from any other computers than PUPPIS and (to some parts) CARINA.

Name	**IP-address**	**Type**	**Location**
GWYSES	134.171.128.1	CISCO router	correlator room
APUS	134.171.128.2	*spare*	
COLUMBA	134.171.128.3	Mac SE/30	terminal room
GRUS	134.171.128.4	Mac IIci	Lars-Åke's room
PHOENIX	134.171.128.5	*spare*	
TUCANA	134.171.128.6	Mac ??? laptop (PRIV)	Lars-Åke's room
SEXTANS	134.171.128.10	HP-735 work station	*not used yet*
OCTANS	134.171.128.11	HP-735 work station	*not used yet*
CARINA	134.171.128.12	HP-730 work station	Lerner's room
PUPPIS	134.171.128.13	HP-720 work station	terminal room
DORADO	134.171.128.14	Linux PC	control room
ERIDANUS	134.171.128.15	*spare*	
HYDRA	134.171.128.20	Windows/Linux PC	Michel's room
LUPUS	134.171.128.21	Windows laptop (PRIV)	Michel's room
SAGITTARIUS	134.171.128.22	??? laptop (PRIV)	astronomers' room
PICTOR	134.171.128.23	Windows/Linux PC	operators' room
VIRGO	134.171.128.25	*Linux PC*	???
TAURUS	134.171.128.26	*Linux PC*	terminal room
ARIES	134.171.128.27	Windows laptop	lab
GEMINI	134.171.128.28	Windows/Linux PC	Lauri's room
CAPRICORNUS	134.171.128.29	Windows/Linux PC	Lager's room
LIBRA	134.171.128.32	HP-700 X-terminal	astronomers' room
LEO	134.171.128.33	HP-700 X-terminal	control room
AQUARIUS	134.171.128.34	*spare*	
FORNAX	134.171.128.40	VME OS-9 spare	lab
INDUS	134.171.128.41	???	
ARA	134.171.128.50	work station ???	Japanese room
PAVO	134.171.128.51	Macintosh ???	Japanese room
MENSA	134.171.128.52	NEC ???	Japanese room
HYDRUS	134.171.128.53	*spare*	
ORION	134.171.128.60	LaserJet 5M printer	terminal room
CANIS	134.171.128.61	*spare*	
CORONA	134.171.128.70	Windows laptop (PRIV)	operators' room
CIRCINUS	134.171.128.71	*spare*	
CAELUM	134.171.128.72	Windows/Linux PC	Lars-Åke's room
SCULPTOR	134.171.128.73	*spare*	
NORMA	134.171.128.74	Linux laptop	Lauri's room
SCUTUM	134.171.128.80	*guest laptop*	
SERPENS	134.171.128.81	*guest laptop*	
AQUILA	134.171.128.82	*guest laptop*	
PISCES	134.171.128.83	*spare*	
CANCER	134.171.128.84	*spare*	