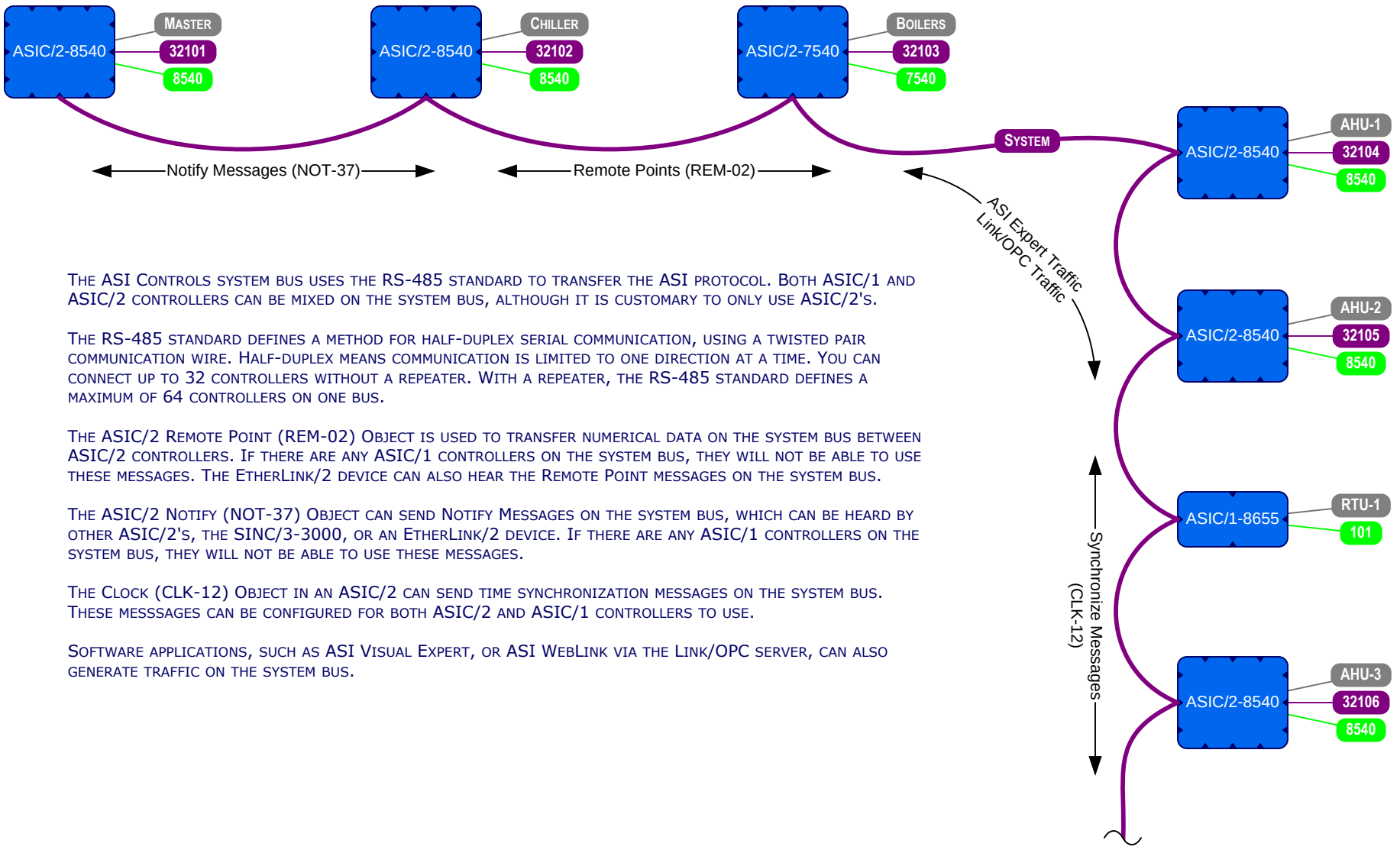

THE ASI CONTROLS SYSTEM BUS USES THE RS-485 STANDARD TO TRANSFER THE ASI PROTOCOL. BOTH ASIC/1 AND ASIC/2 CONTROLLERS CAN BE MIXED ON THE SYSTEM BUS, ALTHOUGH IT IS CUSTOMARY TO ONLY USE ASIC/2'S.

THE RS-485 STANDARD DEFINES A METHOD FOR HALF-DUPLEX SERIAL COMMUNICATION, USING A TWISTED PAIR COMMUNICATION WIRE. HALF-DUPLEX MEANS COMMUNICATION IS LIMITED TO ONE DIRECTION AT A TIME. YOU CAN CONNECT UP TO 32 CONTROLLERS WITHOUT A REPEATER. WITH A REPEATER, THE RS-485 STANDARD DEFINES A MAXIMUM OF 64 CONTROLLERS ON ONE BUS.

THE ASIC/2 REMOTE POINT (REM-02) OBJECT IS USED TO TRANSFER NUMERICAL DATA ON THE SYSTEM BUS BETWEEN ASIC/2 CONTROLLERS. IF THERE ARE ANY ASIC/1 CONTROLLERS ON THE SYSTEM BUS, THEY WILL NOT BE ABLE TO USE THESE MESSAGES. THE ETHERLINK/2 DEVICE CAN ALSO HEAR THE REMOTE POINT MESSAGES ON THE SYSTEM BUS.

THE ASIC/2 NOTIFY (NOT-37) OBJECT CAN SEND NOTIFY MESSAGES ON THE SYSTEM BUS, WHICH CAN BE HEARD BY OTHER ASIC/2'S, THE SINC/3-3000, OR AN ETHERLINK/2 DEVICE. IF THERE ARE ANY ASIC/1 CONTROLLERS ON THE SYSTEM BUS, THEY WILL NOT BE ABLE TO USE THESE MESSAGES.

THE CLOCK (CLK-12) OBJECT IN AN ASIC/2 CAN SEND TIME SYNCHRONIZATION MESSAGES ON THE SYSTEM BUS. THESE MESSSAGES CAN BE CONFIGURED FOR BOTH ASIC/2 AND ASIC/1 CONTROLLERS TO USE.

SOFTWARE APPLICATIONS, SUCH AS ASI VISUAL EXPERT, OR ASI WEBLINK VIA THE LINK/OPC SERVER, CAN ALSO GENERATE TRAFFIC ON THE SYSTEM BUS.

TITLE	ASI CONTROLS SYSTEM BUS OVERVIEW		
DATE	2008-DEC-06	REV	None
DRAWN BY	PDL	SCALE	None
NUMBER	ASI-4		

ASI Controls

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