

2. System Identification

This section should be used to help define and identify each of the four configurations of the 3300 Monitoring System Bently Nevada LLC supports. The configurations are defined by the rack (backplane version), Power Supply, System Monitor, and firmware installed in individual monitors. The four possible 3300 configurations are explained below.

Use **Table 2** on the next page to clarify exactly which 3300 configuration you may have.

2.1 Configuration Definitions

2.1.1 Original System

This is the first generation 3300 System. This system **may** have serial communication capability, but it predates and is **not** compatible with the internal data interfaces (TDe or SDI/DDI) and most recent external communication processors (SDIX/DDIX, TDIX and TDXnet™ CPs). The Original System can, however, communicate with a Digital Control System (DCS) or with DM2000 Software through a DDM, PDM, or TDM CP.

These systems can be upgraded to the Mixed System, TDe or SDI/DDI System configuration, depending on your interface requirements.

2.1.2 Mixed System

This is the Original System with a 3300/03-01 System Monitor that does **not** have internal SDI/DDI capabilities but can interface to a DDM, TDM, PDM CP. In order to interface to an SDIX/DDIX, TDIX or TDXnet™ CP, the firmware in each monitor **must** be SDI/DDI compatible.

NOTE: The System Monitor must be configured correctly with jumpers depending upon the external Communication Processor that is being used. The DDM, TDM, and PDM use a different static interface than the SDIX/DDIX, TDIX, and TDXnet™ CPs. Refer to the System Monitor Manual (BN Document 89604, table 1) for specific jumper configurations.

Table 3 in Section 2.4 lists the SDI/DDI compatible monitor firmware part numbers.

The Mixed System can be upgraded to an SDI/DDI System, by changing the backplane, power supply, and the firmware in each of the monitors.

2.1.3 SDI/DDI System

This generation of the 3300 System uses 3300/03 System Monitor. The System Monitor, Power Supply, and Backplane are all SDI/DDI-compatible, with the System Monitor configured with or without internal SDI/DDI communications and the firmware in each of the monitors is SDI/DDI compatible.

5. Appendix B

5.1 Firmware Upgrade Kit Part Numbers

To upgrade to an SDI/DDI compatible monitor

Monitor or Communication Processor Part Number	Firmware Upgrade Kit Part Number
3300/15 Dual Vibration Monitor	104535-01
3300/16 Dual Vibration w/Gap Monitor	104535-02
3300/20 Dual Thrust Position Monitor	104535-03
3300/25 Dual Accelerometer Monitor	104535-04
3300/26 Dual Accelerometer RMS Monitor	104535-05
3300/30 Six-channel Thermocouple Input Temperature Monitor	104535-06
3300/35 Six-channel RTD Input Temperature Monitor	104535-07
3300/45 Dual Differential Expansion Monitor	104535-08
3300/46 Ramp Differential Expansion Monitor	104535-09
3300/47 Complementary Input Differential Expansion Monitor	104535-10
3300/48 Case Expansion Monitor	104535-11
3300/50-01 Dual Setpoint Tachometer	104535-12
3300/50-02 Zero Speed Tachometer	104535-17
3300/50-03 Rotor Acceleration Tachometer	104535-18
3300/55 Dual Velocity Monitor	104535-13
3300/61 Dual Vector Monitor	104535-14
3300/65 Dual Probe Monitor	104535-15
3300/70 Dual Valve Position Indicator	104535-16

Note: The original firmware in the 3300/17, 3300/36, 3300/39, 3300/40, 3300/52, 3300/53, 3300/54, 3300/75, 3300/80, 3300/81, 3300/85, and 3300/95 monitors is SDI/DDI compatible.