

## Highlights

Conductor NT is a Windows® 2000 Human System Interface (HSI) that provides a suite of operator-directed features and functions that are ergonomically designed to facilitate process monitoring, control, fault mitigation, and optimization. Conductor NT supports a wide range of HSI features including but not limited to large display quantities, global alarm silence, dual CRTs, software and hardware alarm display panels, client/server architecture, Active X® display elements, VB Scripting of dynamics, @aGlance/IT™ data access, and scalable bitmap import. Conductor NT supports connectivity with Symphony/Harmony, Symphony/DCI, Freelance 2000™, and OPC server systems.

## Performance Characteristics

Feature	Characteristic/Value
Display system	
Fixed hierarchy	3 levels: summary, group, and point
Summary displays	1,000 pages of 24 group symbols <sup>1</sup>
Group displays	24,000 displays of 4, 6, or 8 faceplates <sup>1</sup>
Point (tuning) displays	192,000 <sup>1,2</sup> 60,000/console group; 30,000/server <sup>3,4,5</sup>
Custom configured displays	10,000/console group <sup>1</sup>
Process windows	Up to 4 per display; 120/console group <sup>3,4,5</sup>
Total windows/display	Approximately 20 (application dependent)
Trend displays	10,000/console group <sup>1</sup> ; 8 traces/display
Mini-alarm window	Permanent display: 4 lines: 2 process alarms, 1 system alarm, and 1 operator message
Alarm review display	1 group-wide
Event review display	1 group-wide
System status display	1 fixed and multiconfigurable
Performance	
Display callup	Less than 2 seconds typical
Tuning display updates	1 second
DDE/OLE server data transmission rate	Up to 500 values/second

Feature	Characteristic/Value
<p>Capacities</p> <p>Real-time tags</p> <p>Real-time tags per server</p> <p>Alarms and events</p> <p>Event Historian</p> <p>Trends</p> <p>Summary logs</p> <p>Process areas</p> <p>Alarm priorities</p> <p>CRT context keys</p> <p>QuickKeys</p> <p>ADP (hardware support/software)</p> <p>Security</p>	<p>No limit: any tag available on the Cnet<sup>2</sup></p> <p>Selectable: 500, 2500, 10000 and 30000<sup>3,4</sup></p> <p>No limit: all active and unacknowledged alarms and events are displayed</p> <p>10,000 events in circular buffer</p> <p>8,000/console group (2,000/server)</p> <p>Excel spreadsheets, standard logs, limited by memory only</p> <p>Up to 255</p> <p>Up to 16</p> <p>16/operator (1 for logon)</p> <p>Up to 64/operator</p> <p>Up to 4 - 64 (32 unshifted and 32 shifted) key panels per station</p> <p>9 levels, hierarchical; 60+ permits</p>
<p>Architecture</p> <p>Structure</p> <p>System display nodes</p> <p>Cnet</p> <p>Console group</p> <p>Server support</p> <p>Open data connection</p> <p>Third-party controller connectivity</p> <p>OPC scanner capacity</p> <p>Onet connection</p> <p>Cnet connection</p> <p>Graphics system</p>	<p>Client/server</p> <p>Up to 50 display nodes total (Cnet + Onet)<sup>2,4,5</sup></p> <p>Up to 50 console groups</p> <p>Up to 10 servers<sup>2,4,5</sup></p> <p>Up to 8 nodes (max. 4 servers), client extenders<sup>3</sup></p> <p>Up to 10 clients<sup>2,4,5</sup></p> <p>Max. 30 clients/group<sup>3</sup></p> <p>DDE, OLE up to 10 simultaneous clients</p> <p>OPC standard client interface (optional)</p> <p>Tested with Factory Soft Modicon and Rockwell Automation RSLinx OPC servers. Supports OPC Data Access version 1.0.</p> <p>500, 1500, 3000 tag names</p> <p>IEEE 802.3 Ethernet™, TCP/IP protocol</p> <p>IEEE 802.3 Ethernet, TCP/IP protocol<sup>2,4,5</sup></p> <p>Infinet, plant loop and Cnet<sup>3,6</sup></p> <p>SL Graphics Modeling System (SL-GMS)</p>

**Note:**

1. Approximate: 9,999 custom configured displays, 9,999 trend displays, 999 summary displays, 23,976 group displays, and 191,808 point displays.
2. Pertains specifically to Symphony/DCI systems.
3. Pertains specifically to Symphony/Harmony systems.
4. Pertains specifically to Freelance 2000 systems.
5. Pertains specifically to OPC systems.
6. Plant loop support via PCI2 only.

## Recommended Hardware Configuration

Characteristics	Server	Client
Memory required	128 Mb EDO or faster RAM	96 Mb EDO or faster RAM
Platform	Intel® Pentium® class PC registered compatible with Windows 2000	Intel Pentium class PC registered compatible with Windows 2000
Processor speed	200 MHz (min.)	200 MHz (min.)
Hard disk space	2.1 Gb (min.)	1.2 Gb (min.)
Network connector	Ethernet IEEE 802.3 compliant (TCP/IP); thin-wire 10Base2 preferred, 10BaseT acceptable	Ethernet IEEE 802.3 compliant (TCP/IP); thin-wire 10Base2 preferred, 10BaseT acceptable
CD-ROM reader	2X (min.)	2X (min.)
Video adapter	2 Mb (min.) resolution: 1280x1024 preferred, 1024x768 (min.)	2 Mb (min.) resolution: 1280x1024 preferred 1024x768 (min.)
Ports	2 serial, 1 parallel	2 serial, 1 parallel
Mouse	2-button bus mouse; 3-button preferred	2-button bus mouse; 3-button preferred
Floppy disk drive	3.5 in., 1.44 Mb	3.5 in., 1.44 Mb
Options and accessories		
Archival device	DAT drive QIC tape drive	Archival not applicable Archival not applicable
Dual monitor	Appian Gemini PCI Video Card and software	Appian Gemini PCI Video Card and software
Printers	Color laser printer Xerox® Phaser 750N Color inkjet printer Xerox DocuPrint NC20 Color dot matrix, wide carriage, event line printer AMT 5350 and 6350	Color laser printer Xerox Phaser 750N Color inkjet printer Xerox DocuPrint NC20 Color dot matrix, wide carriage, event line printer AMT 5350 and 6350

## Ancillary Equipment

- QWERTY keyboard with 3 alarm indicators and 2 tones (177A550U01).
- ECCP redundant Ethernet interface (686B811U01) for Symphony/DCI.
- QWERTY Mylar keyboard with NEMA4 trackball with 3 alarm indicators and 2 tones (177A549U01).
- Signature desktop workstation.
- Version 5.0 CD-ROM (1900633A1).
- Logon - logout badge reader (178B026U01) and badges (699B484U01).

## Supported Software

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Conductor NT Version 5.0 supports:

- Symphony DCI with software at release level SR 5.0 (Conductor NT, Harmony DCU, DCU2000G, and Composer CTK). Runs on Windows 2000 with SP2.
- Symphony Harmony with INICI03, INICI12, Harmony Network Coupler A1.0, or INIPCI02, and Composer for Harmony version 3.0 and 3.1. Runs on Windows 2000 with SP2.
- Freelance 2000 Version 6.2. Runs on Windows 2000 with SP2.

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