

TECHNICAL DATA SHEET

DS0123 rev 4

INTEGRA-Supervisor (EMEA & FE)



DESCRIPTION

BTL-listed as an BACnet® Advanced Operator Workstation (B-AWS) and BACnet Operator Workstation (B-OWS), the INTEGRA-Supervisor is an enterprise management server class software solution that connects multiple INTEGRA™-based IT-8000 controllers, along with other IP-based controllers and field devices, to be networked together. It serves real-time graphical information to standard web-browser clients and provides server-level functions.

These functions include centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management and integration with other enterprise software applications through an XML interface (oBIX standard). Additionally, the INTEGRA-Supervisor includes a comprehensive graphical engineering toolset for application development.

APPLICATION

The INTEGRA-Supervisor can be used in conjunction with the IT-8000 controllers to aggregate information, including real-time data, history, and alarms, to create a single, unified application.

Enterprise Management Software

- Quickly navigate to individual buildings using tags to diagnose problems
- Compare data between buildings
- Export system data to external databases
- Remotely back up INTEGRA™ applications to INTEGRA-Supervisor
- Robust built-in analytic capabilities supported by standard INTEGRA components and visualizations
- Enterprise level history, trends and alarms
- Audit Trail provides chronological history of user transactions

Single tool used to program the INTEGRA-Supervisor and IT-8000 network controllers

Eligible for accreditation under the Federal Risk Management Framework (RMF)

FIPS 140-2 Level 1 Conformance Available

SPECIFICATIONS

INTERFACE

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| HTML5 and Java-enabled user interface (UI); JavaScript data interface library included (BajaScript) |
| Supports an unlimited number of users over the internet/intranet with a standard web browser (depending on the host PC resources) |
| Note: Appropriate security measures, such as VPN or firewall, must be used. |
| Access to alarms, logs, graphics, schedules and configuration data with a standard web browser |
| HTML-based help system that includes comprehensive online system documentation |

SECURITY

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| Optional enterprise-level data archival using SQL, MySQL or Oracle databases, and HTTP/HTML/XML, CSV or text formats |
| Audit Trail of database changes, database storage and backup, global time functions, calendar, central scheduling, control and energy management routines |
| Sophisticated alarm processing and routing, including email alarm acknowledging |
| INTEGRA follows industry best practices for cyber security, with support for features such as strong, hashed passwords, TLSv1.2 for secure communications and certificate management tools for authentication |

COMPATIBILITY

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| In any given INTEGRA™ system, the INTEGRA-Supervisor must be running the highest version of any INTEGRA™ instance in the architecture. |
| INTEGRA-Supervisors can connect to IT-8000s running INTEGRA versions 3.6u4, 3.7u1, 3.8R and higher. |

SUPPORTED DRIVERS

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| Many open IP protocol drivers are included with INTEGRA-Supervisor. |
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CONNECTIVITY

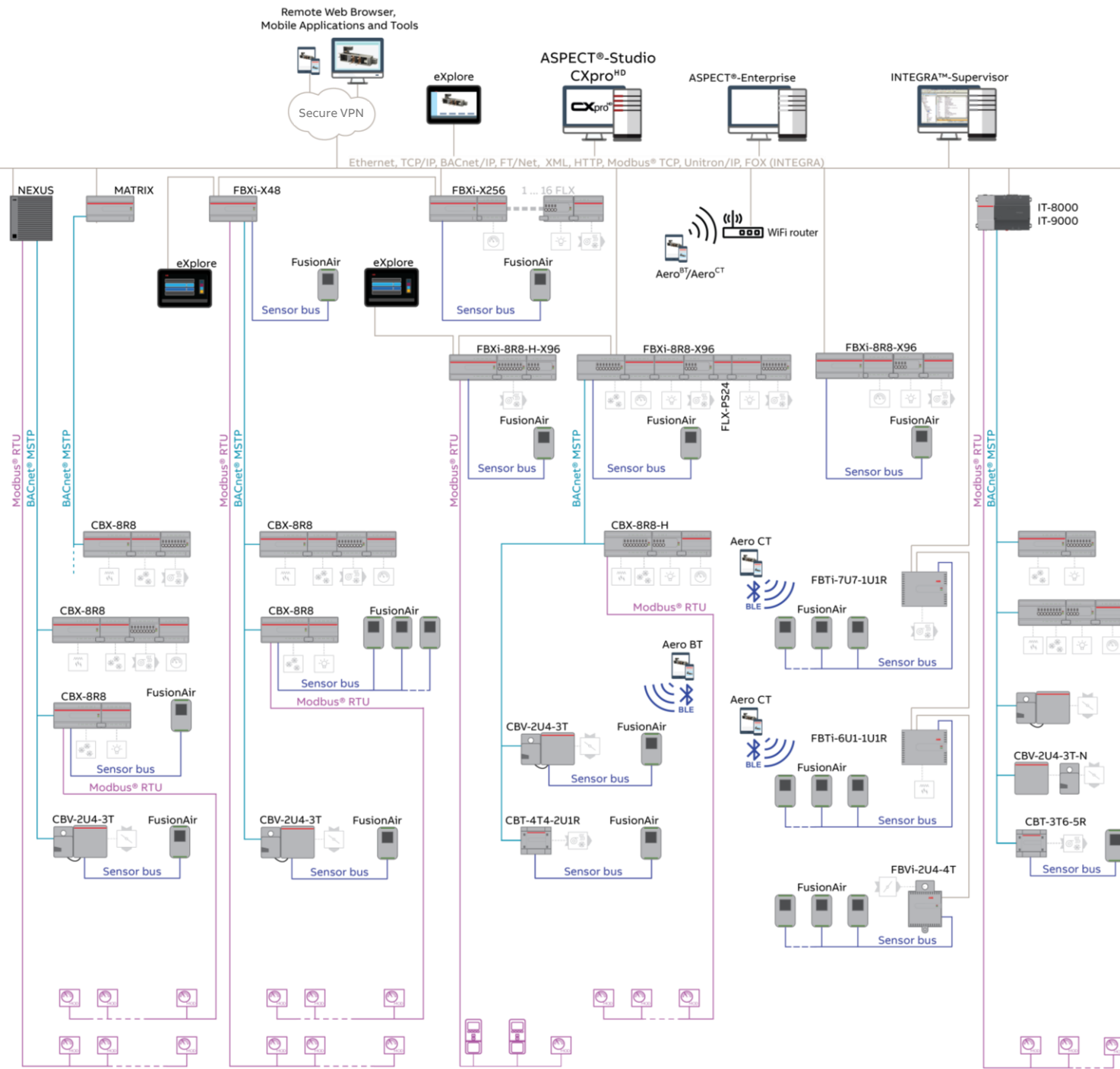
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| Supports multiple INTEGRA-based stations connected to a local Ethernet network or the internet. |
| Note: Appropriate security measures, such as VPN or firewall, must be used. |
| Provides online/offline use of the INTEGRA Workbench graphical configuration tool and a comprehensive Java Object Library |
| Optional direct Ethernet-based driver support for most Open IP field bus protocols (see supported drivers document) |

















PLATFORM REQUIREMENTS

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| INTEGRA-Supervisor may run acceptably on lower-rated platforms, or may even require more powerful platforms, depending on the application, number of data points integrated, data poll rate, number of concurrent users, performance expectations, etc. | |
| Processor | Intel® Xeon® CPU ES-2640 x64 (or better), compatible with dual- and quad-core processors |
| Operating System | Windows 7 Professional/Enterprise/Ultimate (32 and 64 bit), Windows 8.1 Professional/Enterprise/Ultimate (32 and 64 bit) Windows 10 (32 and 64 bit), Windows Server 2012 R2 (SP2) Standard/Enterprise, Windows Server 2016, Red Hat Enterprise Linux 7.4 |
| Memory: | 6 GB minimum, 8 GB or more recommended for larger systems |
| Hard Drive: | 4 GB minimum, more recommended depending on archiving requirements |
| VDU | Video card and monitor capable of displaying 1024 x 768 pixel resolution or greater |
| Network Support | Ethernet adapter (10/100 Mb with RJ-4S connector) |
| Connectivity | Full-time high-speed ISP connection recommended for remote site access (i.e., T1, ADSL, cable modem) and IPv6 compliant |

Platform requirements for older versions of INTEGRA-Supervisors are included in the release notes for each version.

SYSTEM ARCHITECTURE



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|  FBXi / CBXi-8R8 / CBX-8R8 |  FLX-8R8 -H |  FBVi-2U4-4T |  INTEGRA Series |  FusionAir Smart Sensor |
|  CBXi-8R8-H / CBX-8R8-H |  FLX-4R4-H |  NEXUS Series |  eXplore |  CBT-STAT |
|  CBV-2U4-3T |  FLX-PS24 |  MATRIX-2 Series | |  UCU Room Display |
|  FLX-8R8 / FLX-4R4 / FLX-16DI |  CBT-4T4-2U1R | | | |

ORDERING INFORMATION

INTEGRA-Supervisor SOFTWARE

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| ITS-000-SUP | INTEGRA-Supervisor software core with support for 0 Niagara network connections. Includes standard drivers. Requires ITS-000-SM0. Typically used to manage TCP/IP field devices (requires ITS-XXX-DIP) |
| ITS-001-SUP | Support for 1 Niagara network connection. Includes standard drivers. Requires ITS-001-SM0. |
| ITS-002-SUP | Support for 2 Niagara network connections. Includes standard drivers. Requires ITS-002-SM0. |
| ITS-010-SUP | Support for 10 Niagara network connections. Includes standard drivers. Requires ITS-010-SM0. |
| ITS-100-SUP | Support for 100 Niagara network connections. Includes standard drivers. Requires ITS-100-SM0. |
| ITS-UNL-SUP | Support for unlimited Niagara network connections. Includes standard drivers. Requires ITS-UNL-SM0. |

SOFTWARE ADDITIONS AND UPGRADES

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| ITS-001-ADD | Adds one additional Niagara connection to INTEGRA-Supervisor core ITS-000-SUP to ITS-100-SUP |
| ITS-100-UPG | INTEGRA-Supervisor upgrade to ITS-100-SUP from ITS-000-SUP to ITS-010-SUP. Will maintain any ITS-001-ADD that were added to original core (ITS-XXX-N4) |
| ITS-UNL-UPG | INTEGRA-Supervisor upgrade from ITS-100-SUP to ITS-UNL-SUP |

DEVICE INTEGRATION PACKS

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| ITS-010-DIP-E | Adds support for 500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP. |
| ITS-025-DIP-E | Adds support for 1,250 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP. |
| ITS-050-DIP-E | Adds support for 2,500 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP. |
| ITS-100-DIP-E | Adds support for 5,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP. |
| ITS-200-DIP-E | Adds support for 10,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP. |
| ITS-500-DIP-E | Adds support for 25,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP. |
| ITS-1000-DIP-E | Adds support for 50,000 points to INTEGRA-Supervisor core software (ITS-XXX-SUP). Standard drivers included. Requires ITS-XXX-SUP. |

SERVICE AND MAINTENANCE AGREEMENTS

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| ITS-000-SM0 | 18-month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-000-SUP. Optional 3 or 5-year maintenance may be substituted. |
| ITS-000-SM1 | 1-year software maintenance agreement for core software ITS-000-SUP. |
| ITS-000-SM3 | 3-year software maintenance agreement for core software ITS-000-SUP. |
| ITS-000-SM5 | 5-year software maintenance agreement for core software ITS-000-SUP. |
| ITS-001-SM0 | 18-month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-001-SUP. Optional 3 or 5-year maintenance may be substituted. |
| ITS-001-SM1 | 1-year software maintenance agreement for core software ITS-001-SUP. |
| ITS-001-SM3 | 3-year software maintenance agreement for core software ITS-001-SUP. |
| ITS-001-SM5 | 5-year software maintenance agreement for core software ITS-001-SUP. |
| ITS-002-SM0 | 18-month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-002-SUP. Optional 3 or 5-year maintenance may be substituted. |
| ITS-002-SM1 | 1-year software maintenance agreement for core software ITS-002-SUP. |
| ITS-002-SM3 | 3-year software maintenance agreement for core software ITS-002-SUP. |
| ITS-002-SM5 | 5-year software maintenance agreement for core software ITS-002-SUP. |
| ITS-010-SM0 | 18-month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-010-SUP. Optional 3 or 5-year maintenance may be substituted. |
| ITS-010-SM1 | 1-year software maintenance agreement for core software ITS-010-SUP. |
| ITS-010-SM3 | 3-year software maintenance agreement for core software ITS-010-SUP. |
| ITS-010-SM5 | 5-year software maintenance agreement for core software ITS-010-SUP. |
| ITS-100-SM0 | 18-month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-100-SUP. Optional 3 or 5-year maintenance may be substituted. |
| ITS-100-SM1 | 1-year software maintenance agreement for core software ITS-100-SUP. |
| ITS-100-SM3 | 3-year software maintenance agreement for core software ITS-100-SUP. |
| ITS-100-SM5 | 5-year software maintenance agreement for core software ITS-100-SUP. |
| ITS-UNL-SM0 | 18-month software maintenance agreement. Must be purchased in conjunction with initial core software ITS-UNL-SUP. Optional 3 or 5-year maintenance may be substituted. |
| ITS-UNL-SM1 | 1-year software maintenance agreement for core software ITS-UNL-SUP. |
| ITS-UNL-SM3 | 3-year software maintenance agreement for core software ITS-UNL-SUP. |
| ITS-UNL-SM5 | 5-year software maintenance agreement for core software ITS-UNL-SUP. |

MISCELLANEOUS

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| ITS-FIPS | Provides FIPS 140-2 Level 1 conformance using the integrated FIPS certified BouncyCastle module for N4 Supervisor. Requires ITS-XXX-SUP version 4.6 and later. |
| ITS-OS-AX-SUP | Option to install a Niagara ^{AX} based application on a N4 Supervisor (ITS-XXX-SUP). Supports Niagara ^{AX} version 3.8 only. |
| ITS-ALM-CNSL | INTEGRA-Supervisor Alarm Console client. Support for Niagara alarm monitoring. |

DATABASE CONNECTIVITY DRIVERS

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| ITS-DR-MYSQL | INTEGRA-Supervisor MYSQL database driver. Requires ITS-XXX-SUP |
| ITS-DR-SQL | INTEGRA-Supervisor SQL database driver. Requires ITS-XXX-SUP |
| ITS-DR-ORCL | INTEGRA-Supervisor Oracle 11G database driver. Requires ITS-XXX-SUP |
| ITS-DR-CSV | INTEGRA-Supervisor CSV database driver. Requires ITS-XXX-SUP |
| ITS-DR-OPC-CL | INTEGRA-Supervisor OPC Client over Ethernet database driver. Requires ITS-XXX-SUP. Available only for Windows OS. |

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