



Part No. 24-10051-43 Rev. W Release 12.0 2022-05-20

#### Application

The Metasys Network Automation Engine (NAE) is an Ethernet-based, supervisory device that connects BAS networks to IP networks. NAEs monitor and control field-level building automation devices, including HVAC equipment, lighting, security, and fire safety equipment. At Release 11.0, the NAE55 is also FIPS 140-2 Level 1 compliant. FIPS 140-2 is a United States government cybersecurity standard that approves cryptographic modules/algorithms used for encryption. Use this document to install the NAE. Figure 1 shows the NAE55 engine.

Figure 1: NAE55 Network Engine



The NAE offers various integration options. Ethernet network integrations include the following options:

- Johnson Controls and 3rd party BACnet/IP, BACnet/SC devices
- Simplex® Fire Alarm Control Unit (FACU)
- Cree® SmartCast® Lighting Control
- Molexe Lighting Control
- Tycos C-CUREs 9000 or victors Video Management
- Modbus TCP/IP
- KINIX TP.
- OPC UA integration at Metasys Release 11.0

Field Bus integrations include the following options:

- BACnet MS/TP
- NI2 Burs
- LonWorks® (NAE552x models only)
- Modbus Remote Terminal Unit (RTU)
- Meter Bus (M-Bus)
- Zettlera Fire Panel

Important: For any other custom integrations, contact your local Systems Integration Services (SIS) team before an upgrade. Updated drivers are available on request.

In this installation guide, the term network engine applies to any NAE55 model, unless otherwise stated. For installation instructions on the NAE55s that are approved for Metasys system smoke control applications, refer to the NAE55 Installation Instructions (Part No. 24-10051-00132).

Note: At Metasys Release 10.0 and later, modems (internal and external) and pagers are no longer supported on NAESS engines that run the Linux operating system, but are still supported on prior releases for engines that use a Windows Embedded operating system. You can field-upgrade a network engine at Release 9.0 that has an internal modem to Release 10.0 or later to acquire new release enhancements, but its modem and pager functionality are lost. If you need modem and pager functionality, do not upgrade the NAESS engine to Release 10.0 or later.

#### Installation

Follow these guidelines when installing the network engine:

- Transport the network engine in the original container to minimize vibration and shock damage to the network engine.
- Verify that all the parts shipped with the network engine. The data protection battery and network engine ship together but are packaged separately.
- Do not drop the network engine or subject it to physical shock.
- Do not open the network engine housing (except the data protection battery compartment). The network engine has no user-serviceable parts inside.

#### Parts included

- one MS-NAES5xx-x model
- one data protection battery
- · one installation instructions sheet

#### Materials and special tools needed

You can mount the network engine by using the fasteners option or the DIN rail option.

- Fasteners option Three fasteners appropriate for the mounting surface:
  - #8 screws North America.
  - M4 screws Europe
- DIN rail option 36 cm (14 in.) or longer section of 35 mm (1 1/8 in.) for DIN rail mount applications only.



# **Metasys Johnson Controls Manual**

**TD Snyder** 

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experience the unseen forces of heating ventilation and air conditioning HVAC systems silently orchestrate our well being productivity and health Yet for many the intricate workings of HVAC remain a mystery often relegated to an afterthought in the grand scheme of architectural design This oversight however comes at a significant cost not only in terms of comfort and health but also in substantial energy consumption and environmental impact Having dedicated over three decades to the dynamic world of HVAC and MEP consulting across diverse global landscapes I ve witnessed firsthand the transformative power of well designed systems and the profound consequences of their neglect From the complex industrial facilities that power our economies to the towering commercial structures where innovation thrives and the intimate residential spaces we call home the principles of optimal air management remain universal yet their application demands nuanced understanding and precise execution This book Mastering HVAC System Design A Comprehensive Guide is born from that extensive experience and a deep seated commitment to demystifying the art and science of HVAC engineering It is crafted not just for seasoned professionals seeking to refine their expertise but also for aspiring engineers architects building owners and anyone keen to understand the critical backbone of modern structures My aim is to bridge the gap between theoretical knowledge and practical application providing a holistic framework that empowers you to design systems that are not only efficient and effective but also sustainable and resilient We will embark on a journey from the fundamental principles of heat transfer and psychrometrics through the meticulous process of load calculations to the intricate dance of equipment selection and sophisticated control strategies We will delve into the critical aspects of indoor air quality energy efficiency and the long term stewardship of these vital systems through proper commissioning and maintenance My hope is that this guide serves as your trusted companion illuminating the path to creating environments that are healthier more comfortable and significantly more sustainable for generations to come Let us design smarter buildings so we can all breathe better Charles Nehme Global **Building Operating Management**, 1996 Commerce Business Daily ,1998-11 **HVAC** and **MEP** Consultant

Health Facilities Management ,1991 Digital Built Asset Management Qiuchen Lu, Michael Pitt, 2024-10-03 This insightful book presents a comprehensive understanding of the new technologies impacting the digital era of built asset and facility management Informative and accessible it illustrates how the concepts principles strategies and applications of digital built asset management can be improved and implemented in real life practice Computer Applications in Engineering and Management Parveen Berwal, Jagjit Singh Dhatterwal, Kuldeep Singh Kaswan, Shashi Kant, 2022-04-07 The book Computer Applications in Engineering and Management is about computer applications in management electrical engineering electronics engineering and civil engineering It covers the software tools for office automation introduces the basic concepts of database management and provides an overview about the concepts of data communication internet and e commerce Additionally the book explains the principles of computing management used in construction of buildings in civil engineering and the role of computers in power grid automation in electronics engineering Features Provides an insight to

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can be accomplished by the Tivoli products but they were chosen to be representative of the integration possibilities using the Tivoli products We discuss these implementations and benefits that are realized by these integrations and also provide sample scenarios of how these integrations work This book is a reference guide for IT architects and IT specialists working on integrating Tivoli products in real life environments

ASHRAE Journal, 1993

Consulting-specifying Engineer, 2003

Automação Predial 4.0 Jaime Díaz de la Cruz, Eduardo Díaz de la Cruz, O livro Automa o Predial 4 0 um tratado pr tico de imediata aplica o na rea de projetos Foi preparado com o objetivo de oferecer assimila o imediata pela sua simples leitura A abordagem dos temas orienta o leitor encurtando caminho entre a extensa base tecnol gica dispon vel e sua aplica o nos projetos Na primeira parte foram apresentados conceitos relativos ao empreendimento e conceitua o que se pretende aplicar a cada novo edificio a forma o da equipe e a formula o dos critirios de projeto Apresenta se a proposta da elabora o inicial do chamado Programa de Gerenciamento Predial PGP que define escopos diretrizes e tecnologia a ser aplicada para cada novo projeto Na segunda parte s o apresentadas as redes que ocupam o moderno edificio corporativo comercial Nesta parte s o introduzidos os temas b sicos do hardware e software das redes de automa o na rea de edif cios De forma ampla s o apresentados os produtos desta tecnologia permitindo ao leitor uma introdu o consistente nos modernos sistemas de automa o predial Na terceira parte apresentado o sistema de comunica o focado na rede de automa o predial seus protocolos e tecnologias de TI Em parte a automa o predial chega a nossas m os pela via da rede corporativa desta forma a an lise de uma rede de automa o se faz poss vel quando utilizamos a base de seu sistema de comunica o potencial e desempenho A quarta parte a de maior volume apresenta de forma particular os subsistemas prediais isto as instala es de ar condicionado ilumina o sistemas criticos sistemas de incindio reservat rios e bombas gestio de energia etc. A abordagem dos temas objetivamente pr tica e de imediato aprendizado Inicia se cada assunto tratando dos diagramas funcionais dos sistemas para logo entrar na forma de elabora o dos quadros de pontos do projeto de automa o e na descri o imediata das segu ncias de controle A quinta parte dedicada a conclus es resumindo o atual cen rio da automa o predial e seu contexto dentro da Quarta Revolu o Para ambos os tratados se destaca a sua afinidade e id ntico percurso pelas vias da digitaliza o e da conectividade dos processos Finalmente s o propostas duas recomenda es aplic veis gest o da automa o Architecture .1998 Management of Multimedia Networks and Services Alan Marshall, Nazim Agoulmine, 2003-09-09 Welcome to MMNS 2003 Multimedia services over IP networks are proliferating at an enormous speed There is also increasing demand for solutions that provide assured levels of s vice quality All of these require novel paradigms models and architectures for realizing integrated end to end service management rather than managing n work elements in isolation Providing scalable Quality of Service QoS while maintaining fairness along with secure and optimal network resource mana ment are key challenges for the future Internet These challenges apply to both xed and wireless networks This book contains all of the papers presented at the 6th IFIP IEEE ternational Conference on Management of Multimedia Networks and Services MMNS 2003 hosted by The Queen's University of Belfast Northern Ireland September 7 10 2003 MMNS 2003 follows the successful conferences held in Santa Barbara 2002 Chicago 2001 Fortaleza Brazil 2000 Paris 1998 and Montreal 1997 MMNS uses single track presentations which provide an intimate setting for discussion and debate The conference is known for its high quality papers from various research communities In just six years MMNS has established itself as one of the premier conferences focusing on the management of multimedia networks and services The conference objective is to bring gether researchers working in all facets of network and service management as applied to broadband networks and multimedia services

The Canadian Architect ,1991

2003, **Hotels** 

Whispering the Secrets of Language: An Emotional Quest through Metasys Johnson Controls Manual

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### **Table of Contents Metasys Johnson Controls Manual**

- 1. Understanding the eBook Metasys Johnson Controls Manual
  - The Rise of Digital Reading Metasys Johnson Controls Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Metasys Johnson Controls Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - o Features to Look for in an Metasys Johnson Controls Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Metasys Johnson Controls Manual
  - Personalized Recommendations
  - Metasys Johnson Controls Manual User Reviews and Ratings

- Metasys Johnson Controls Manual and Bestseller Lists
- 5. Accessing Metasys Johnson Controls Manual Free and Paid eBooks
  - Metasys Johnson Controls Manual Public Domain eBooks
  - Metasys Johnson Controls Manual eBook Subscription Services
  - Metasys Johnson Controls Manual Budget-Friendly Options
- 6. Navigating Metasys Johnson Controls Manual eBook Formats
  - o ePub, PDF, MOBI, and More
  - Metasys Johnson Controls Manual Compatibility with Devices
  - Metasys Johnson Controls Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Metasys Johnson Controls Manual
  - Highlighting and Note-Taking Metasys Johnson Controls Manual
  - Interactive Elements Metasys Johnson Controls Manual
- 8. Staying Engaged with Metasys Johnson Controls Manual
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Metasys Johnson Controls Manual
- 9. Balancing eBooks and Physical Books Metasys Johnson Controls Manual
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Metasys Johnson Controls Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Metasys Johnson Controls Manual
  - Setting Reading Goals Metasys Johnson Controls Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Metasys Johnson Controls Manual
  - Fact-Checking eBook Content of Metasys Johnson Controls Manual
  - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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