Satchwell Micronet is a well-known building management system operating on many sites in Europe. The system includes programmable controllers sold under Satchwell, Invensys, TAC, and Schneider Electric brands.

Depending on hardware configuration **Satchwell Micronet** controllers could communicate via three different protocols: Native Communication Protocol or NCP, ARCNET, and LonWorks. NCP is built-in protocol, available on all device models, while ARCNET and LonWorks require extra option cards.

Satchwell Micronet driver for **Niagara AX** allows seamless communication via NCP protocol between Micronet MN controllers and AX-powered devices, including Vykon Jace, Honeywell Hawk, Trend TONN, JCI FX, Distech Controls EC-Net^{AX}.

As no extra Micronet hardware is required, this driver allows simple and easy integration of Micronet BMS with Niagara, used as graphical user interface or as a protocol gateway, enabling communication with multiple BMS protocols, including but not limited to open protocols BACnet, LonWorks, KNX, Modbus, M-bus and proprietary protocols for Schneider Electric Xenta, Trend, Siemens Desigo, Sauter novaNet, GENIbus, Cylon, Lutron and many others.

Key features:

- Communicates via NCP protocol available in all Micronet controllers

- Supports both Micronet generations: "Bus-du-jour" and Micronet 50

- Communicates via RS-485 port

- Enables point read and write

- Overrides outputs for maintenance

- Supports automatic discovery of devices, objects and properties

- Synchronizes time in all devices

- Automatically assigns facets and units of measurement
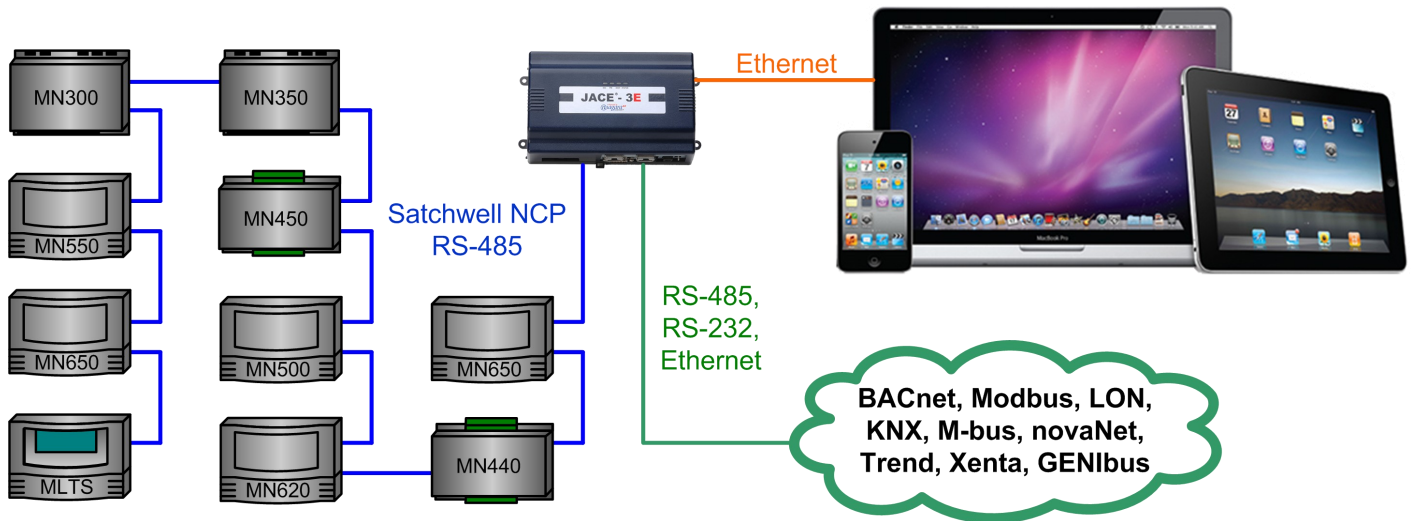
- Ideal for retrofit application

- Supported devices:

MN300	MN440	MN500
MN620	MN350	MN450
MN550	MN650	

Satchwell Micronet

driver for Niagara AX framework

Network diagram

- MN300
- MN350
- MN550
- MN450
- MN650
- MN500
- MN650
- MLTS
- MN620
- MN440

Satchwell NCP
RS-485

JACE - 3E

Ethernet

RS-485,
RS-232,
Ethernet

BACnet, Modbus, LON, KNX, M-bus, novaNet, Trend, Xenta, GENIbus

Discovery of devices, objects and properties

Platform | SatchwellNetwork

Satchwell Discovery — Success

Discovered — 3 objects

Unit Name	Version	Subnet	Node
MN 500:01:E7	MN500C	1	2
MN 620:01:F9	MN620A	1	11
MN 450:00:00	MN4503	1	17

Database

Name	Type	Exts	Status	Subnet
MN 500:01:E7	Satchwell Device		{ok}	1
MN 620:01:F9	Satchwell Device		{ok}	1
MN 450:00:00	Satchwell Device		{ok}	1

New

Platform | Points

Satchwell Discovery — Success

Discovered — 111 objects

Point Name	Value	Point	Instance	Property
DO4	false	Digital Output	4	Status
DO5	false	Digital Output	5	Status
DO6	false	Digital Output	6	Status
DO6-override	Auto	Digital Output	6	Override
AO1	0.00	Analogue Output	1	Output Level
AO2	0.00	Analogue Output	2	Output Level
AO3	0.00	Analogue Output	3	Output Level
AO4	0.00	Analogue Output	4	Output Level
AO4-state	false	Analogue Output	4	State
AO4-overrideLevel	0.00	Analogue Output	4	Override Level
VMON1	nan	Analogue Monitor	1	Value
VMON1-valueInMin	-10000.00	Analogue Monitor	1	Value In Min
VMON1-valueInMax	10000.00	Analogue Monitor	1	Value In Max
VMON1-valueOutMin	-10000.00	Analogue Monitor	1	Value Out Min

Database — 6 objects

Name	Type	Out	Point	Instance	Property
AO1	Numeric Point	0.0 {ok}	Analogue Output	1	Output Level
AO2	Numeric Point	0.0 {ok}	Analogue Output	2	Output Level
AO3	Numeric Point	0.0 {ok}	Analogue Output	3	Output Level
AO4	Numeric Point	0.0 {ok}	Analogue Output	4	Output Level
AO4-state	Boolean Point	false {ok}	Analogue Output	4	State
AO4-overrideLevel	Numeric Point	0.0 {ok}	Analogue Output	4	Override Level

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