



# Satchwell Micronet

driver for Niagara AX framework

**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<sup>AX</sup>.

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.

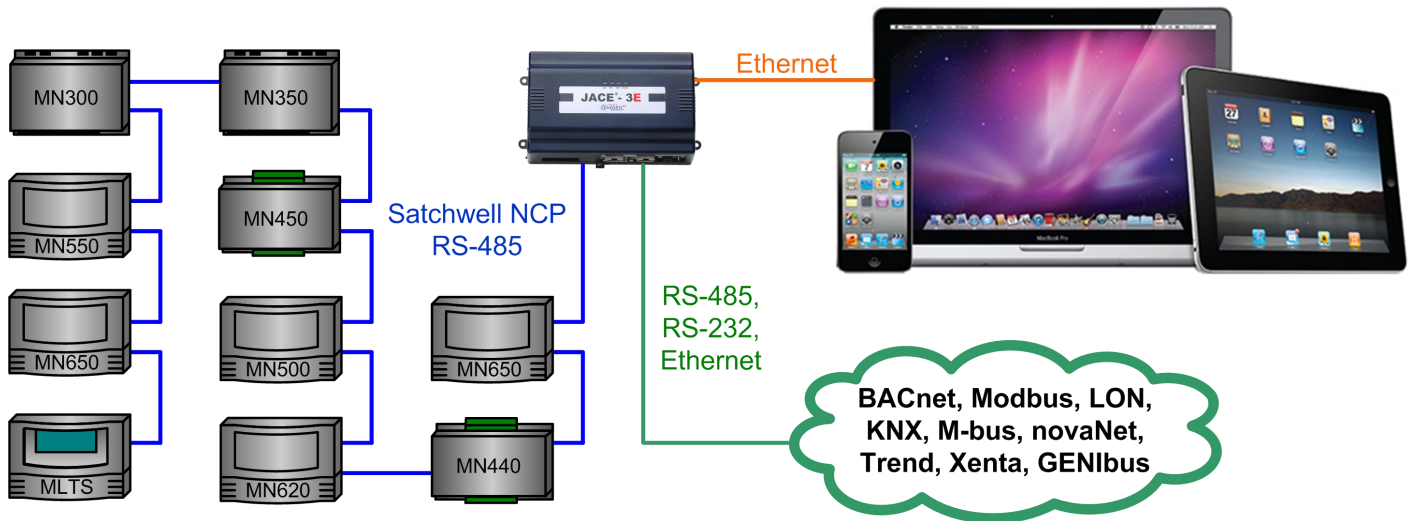
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### Key features:

- 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	

## Network diagram



## Discovery of devices, objects and properties

The image shows two screenshots of a software interface. The top screenshot displays a 'Satchwell Discovery' window with a table of discovered units:

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

The bottom screenshot shows a 'Satchwell Discovery' window with a table of discovered points:

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

Below the points table, there is another table showing database entries:

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