

# Danfoss LON device installation

version 1.0.1

Last modification: 23.8.2022 M.Meriano module for N4.7+N4.8+N4.9+N4.10+

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## 1. Introduction

This guide contains the installation instructions for the Danfoss LON driver of alvasys automation ag. Readers should be familiar with the following concepts to fully understand the background of the activities described below.

- Administration of the Niagara platform.
- Administration of a LON network.

## 2. Prerequisites

The following modules has to be installed on the JACE before adding a Danfoss LON device:

- lonworks by Tridium
- sstarLonDanfoss by Silver Star Engineering

For successful installation you also need a valid license file which contains the feature

## 3. Preparation

The installation does not need specific preparation but please make sure to have a recent backup of the station.

## 4. Installation

### 4.1. Adding a Lon network and the device

From palettes choose lonworks, then drag LonNetwork to Station/Drivers. This step will create a Lon network.

Choose the network just added, the Lon Device Manager view appears. Execute the “Discovery” action and drag down the device you wish to install. Select “EKC” for device type, leave all other parameters unchanged.

Now the device appears in the lower panel.

### 4.2. Creating proxy points

In the row of the device double click on the icon in the Exts column, the Lon Point Manager view appears. Execute the “Discovery” action, then select all the points displayed in the upper table. Execute the “Add” action.

### 4.3. Binding proxy points

Select the Lon network in the Navigator panel and open the Lon Link Manager view.  
Execute the Bind action.

### 4.4. Adding the Danfoss LON extension

Open the palette sstarLonDanfoss.

Drag the LonDanfossPointDeviceExt extension to the EKC device.

Select the extension just added, execute the “Discovery” action.

From the upper table drag down all the parameters you want to monitor.

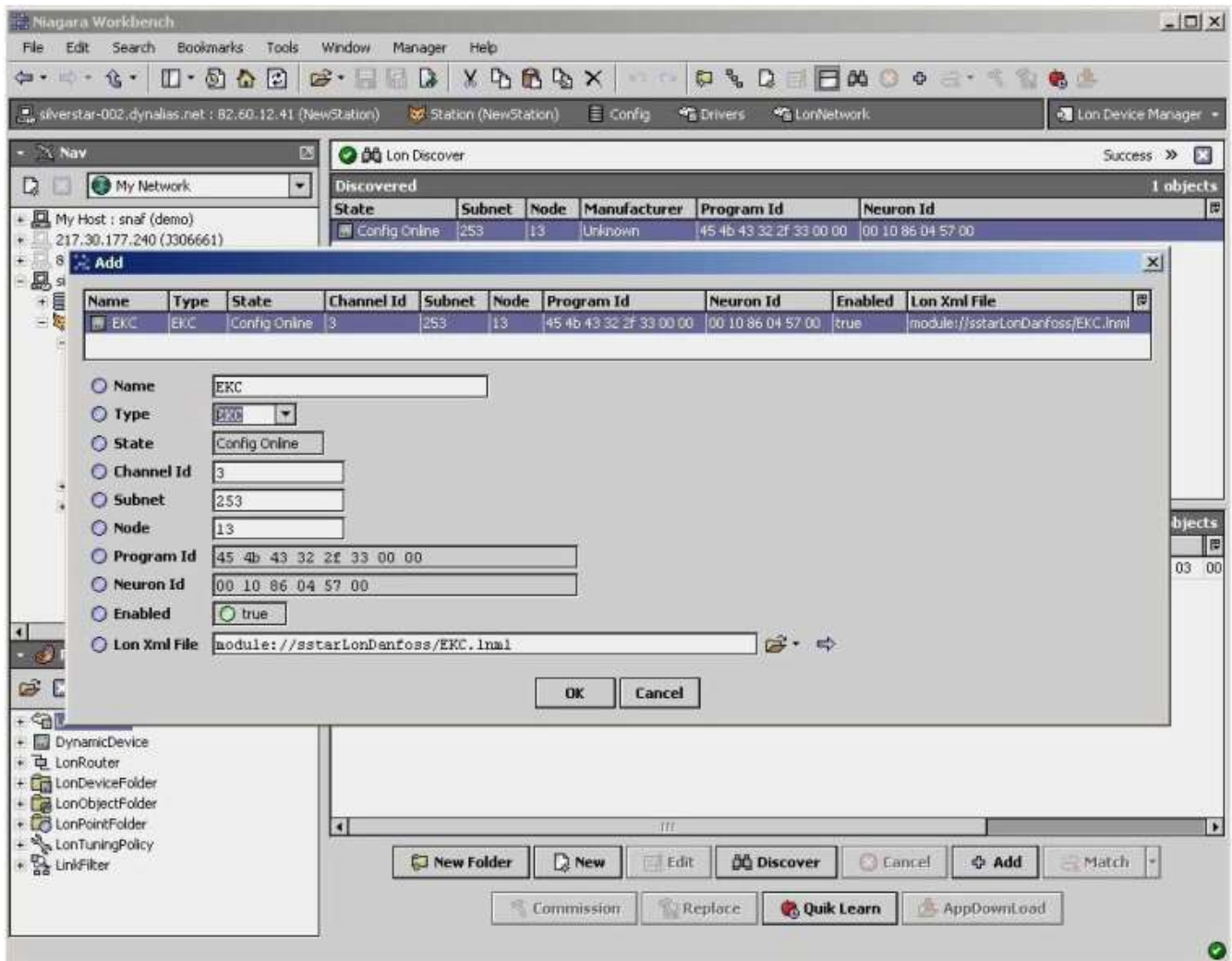


figure 1: Adding EKC device

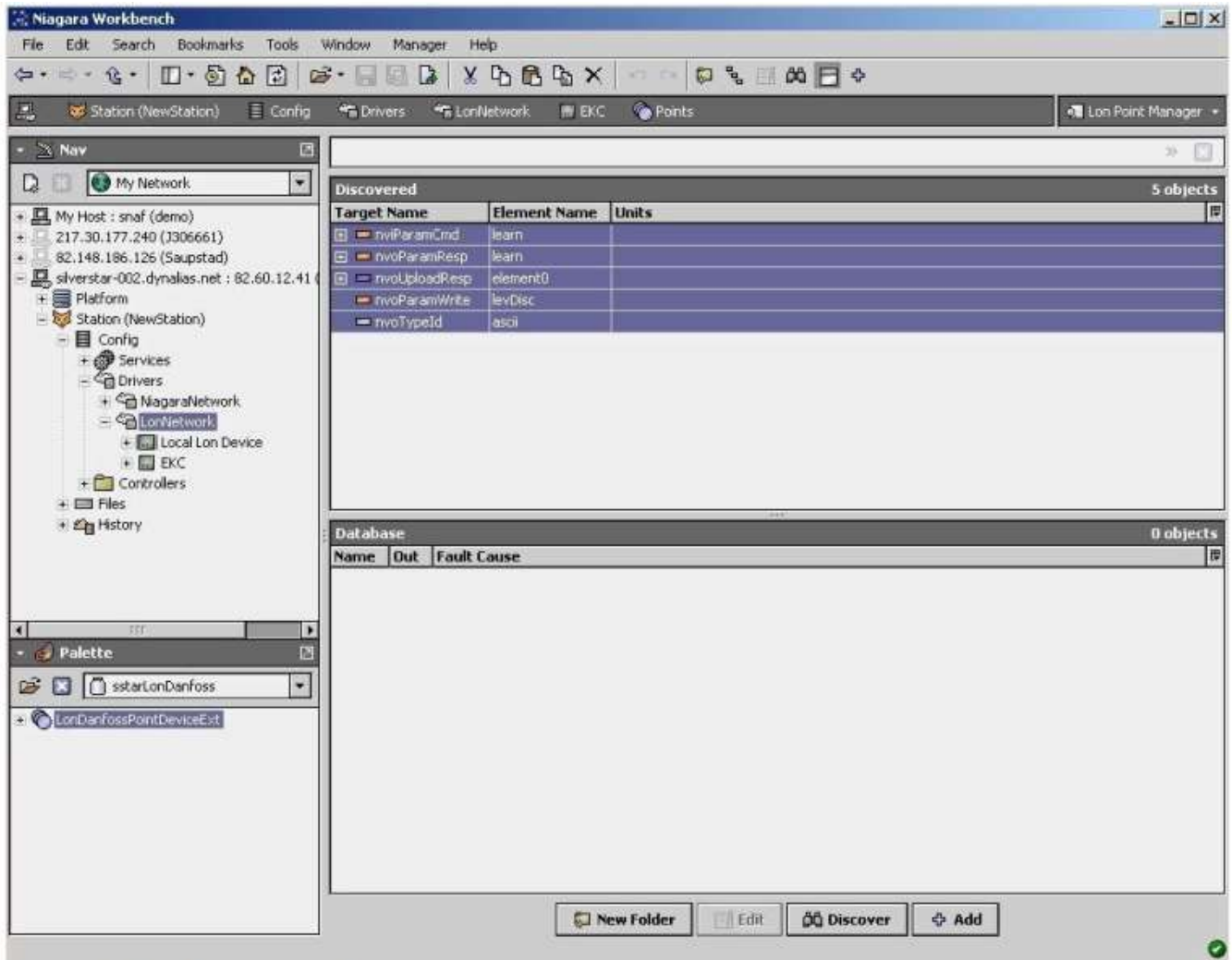


figure 2: Creating proxy points

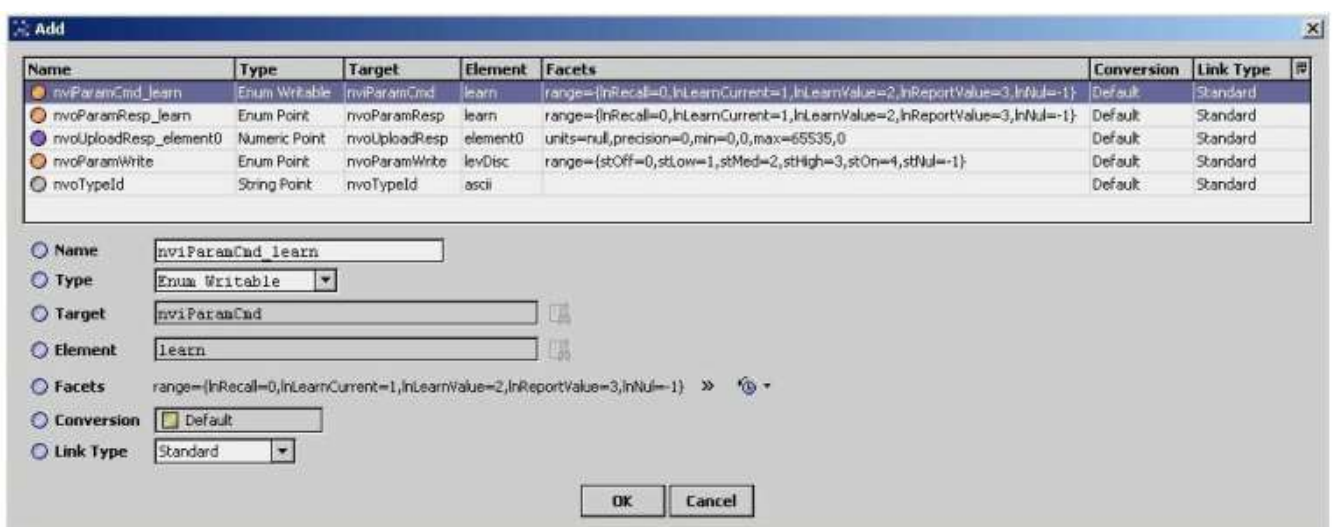


figure 3: Add proxy points dialog

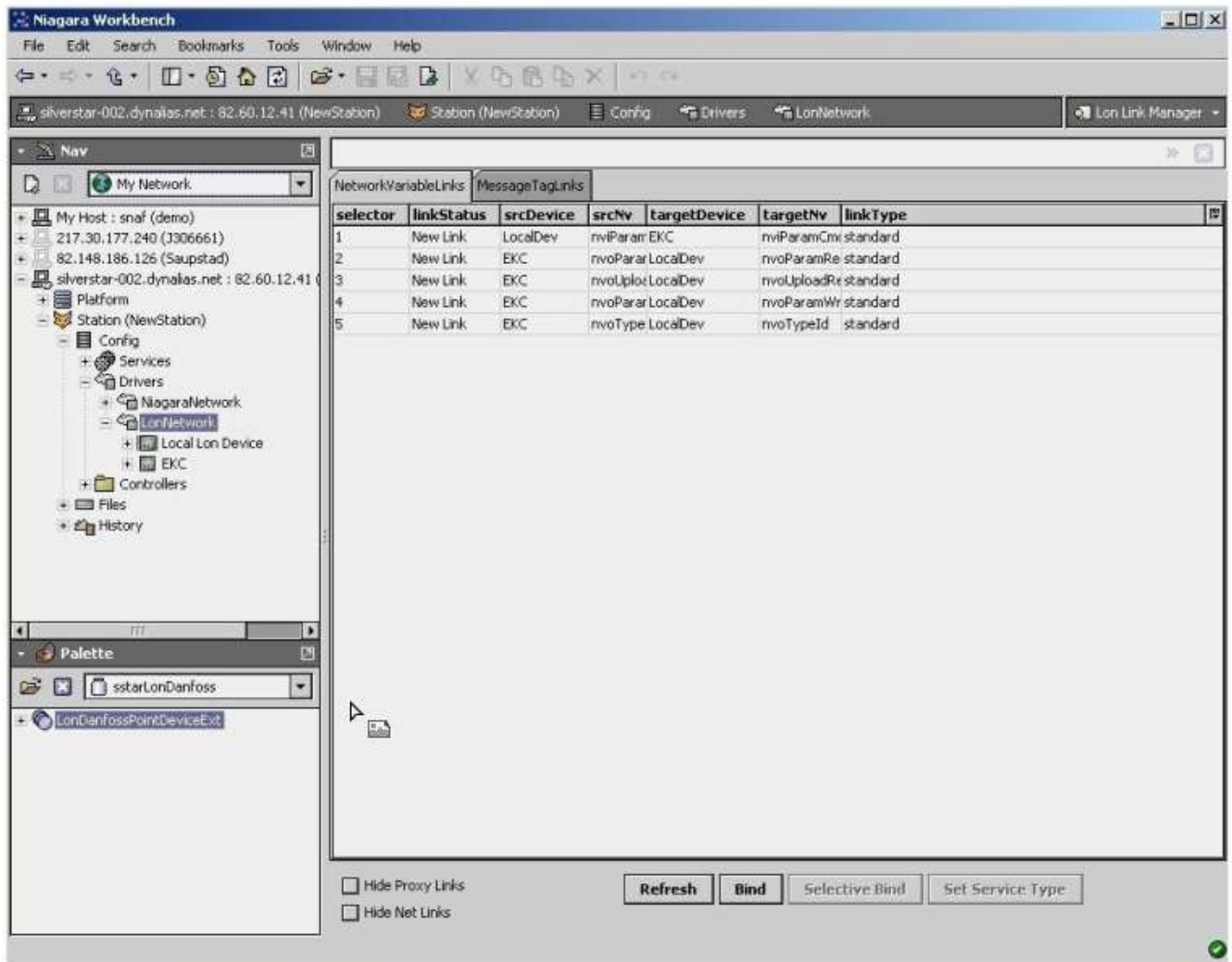


figure 5: Lon links after binding

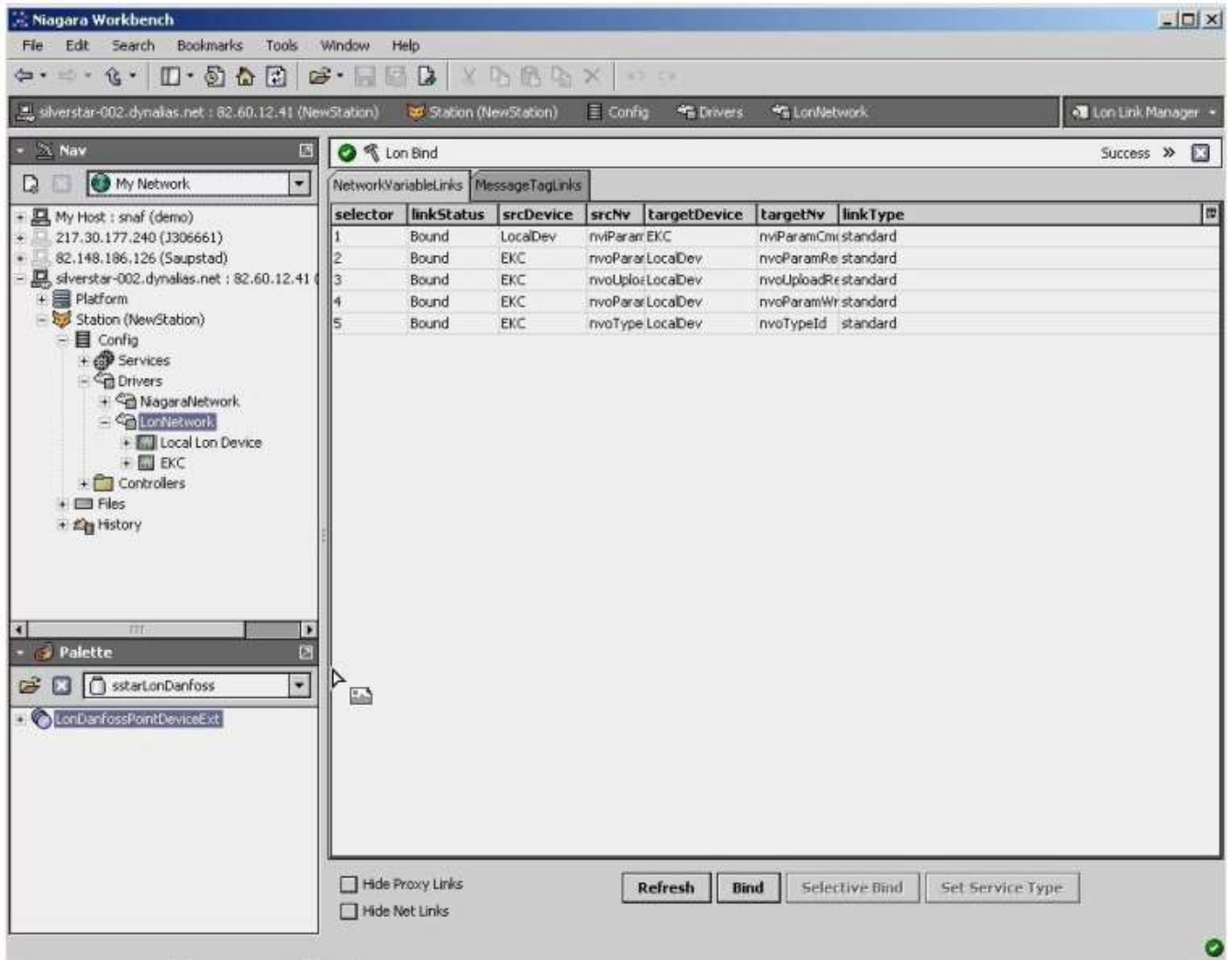
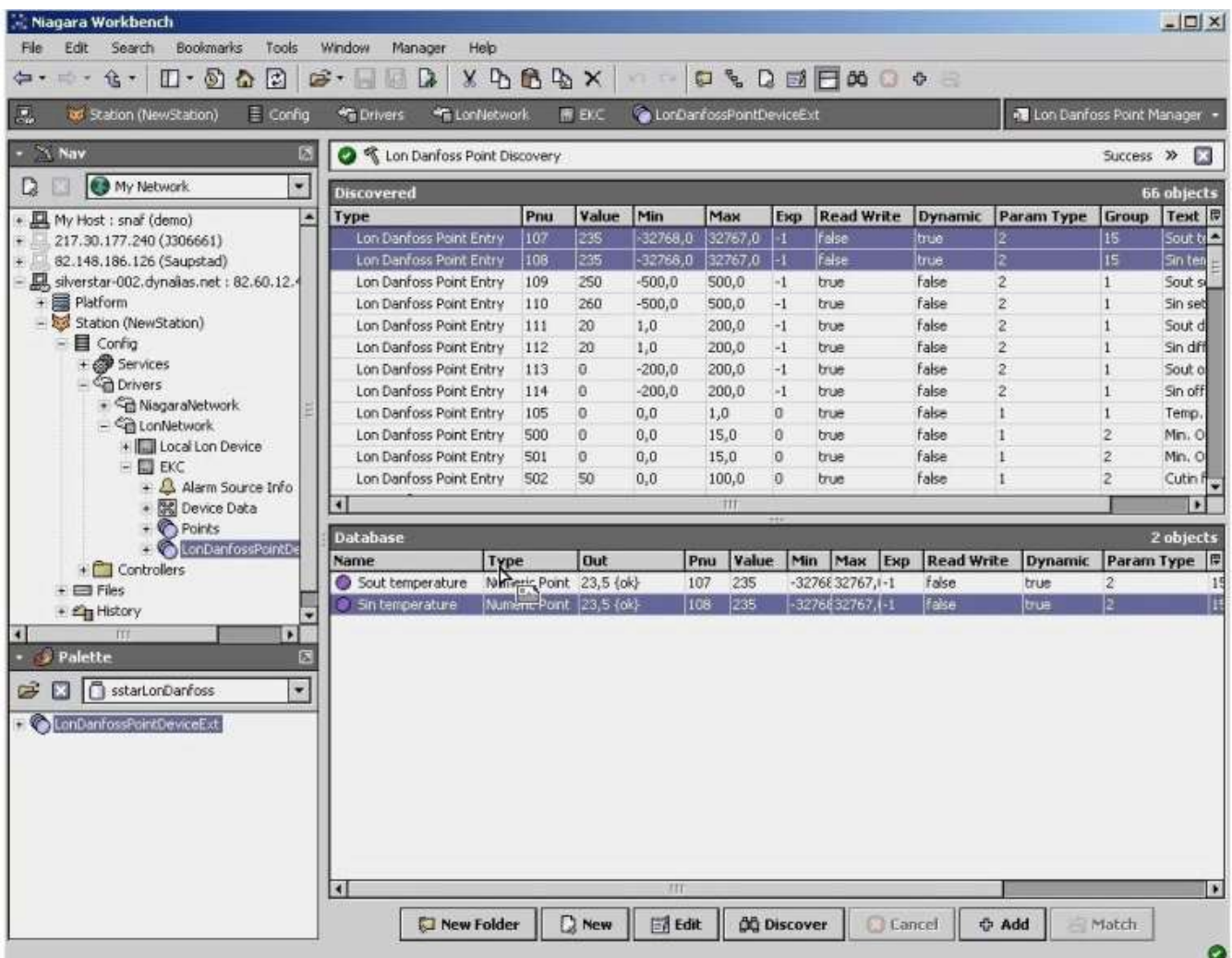


figure 6: Result of discovery for an EKC201





The screenshot shows the Niagara Workbench interface with a 'Lon Danfoss Point Discovery' window. The window displays a table of discovered points and a database table.

**Discovered** (66 objects)

Type	Pnu	Value	Min	Max	Exp	Read	Write	Dynamic	Param Type	Group	Text
Lon Danfoss Point Entry	107	235	-32768,0	32767,0	-1	false	true	true	2	15	Sout b
Lon Danfoss Point Entry	108	235	-32768,0	32767,0	-1	false	true	true	2	15	Sin (en
Lon Danfoss Point Entry	109	250	-500,0	500,0	-1	true	false	false	2	1	Sout s
Lon Danfoss Point Entry	110	260	-500,0	500,0	-1	true	false	false	2	1	Sin seb
Lon Danfoss Point Entry	111	20	1,0	200,0	-1	true	false	false	2	1	Sout d
Lon Danfoss Point Entry	112	20	1,0	200,0	-1	true	false	false	2	1	Sin dff
Lon Danfoss Point Entry	113	0	-200,0	200,0	-1	true	false	false	2	1	Sout o
Lon Danfoss Point Entry	114	0	-200,0	200,0	-1	true	false	false	2	1	Sin off
Lon Danfoss Point Entry	105	0	0,0	1,0	0	true	false	false	1	1	Temp.
Lon Danfoss Point Entry	500	0	0,0	15,0	0	true	false	false	1	2	Min. O
Lon Danfoss Point Entry	501	0	0,0	15,0	0	true	false	false	1	2	Min. O
Lon Danfoss Point Entry	502	50	0,0	100,0	0	true	false	false	1	2	Cutin F

**Database** (2 objects)

Name	Type	Out	Pnu	Value	Min	Max	Exp	Read	Write	Dynamic	Param Type
Sout temperature	Numeric Point	23,5 (ok)	107	235	-32768	32767	-1	false	true	true	2
Sin temperature	Numeric Point	23,5 (ok)	108	235	-32768	32767	-1	false	true	true	2

figure 7: Points added to the device