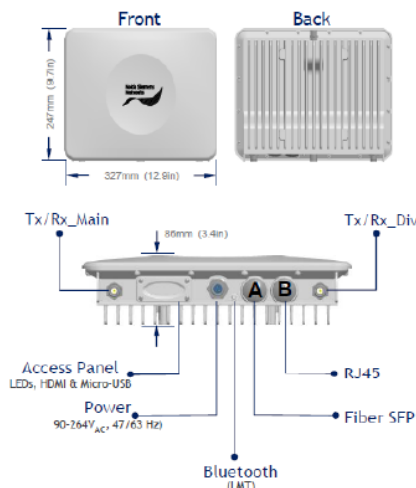


Procedimiento Nokia Flexi-Zone LTE

MANUAL EQUIPOS FLEXI ZONE LTE



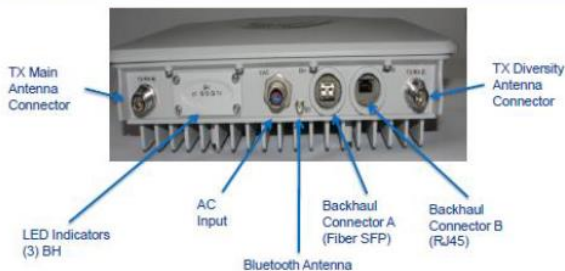
PRODUCT SPECIFICATIONS

Product ¹	Outdoor Flexi Zone Micro BTS	Outdoor Flexi Zone Pico BTS
4G Support ²	1 FDD LTE or TD-LTE band	1 FDD LTE or TD-LTE band
Antenna Configuration	2T / 2R MIMO	2T / 2R MIMO
Power Output	Up to 5W per TX branch, power down to 250mW	Up to 1W per TX branch, power down to 250mW
4G Bandwidth Support	Up to 20MHz (TD-LTE Up to 40MHz)	Up to 20MHz (TD-LTE Up to 40MHz)
Mass	5 Kg (8Kg for TD-LTE)	5 Kg (8Kg for TD-LTE)
Volume	5 L (8 L for TD-LTE)	5 L (8 L for TD-LTE)
Temperature ³	-40 to +55C	-40 to +55C
Power Input	AC 90 - 264 V	AC 90 - 264V
Synchronization ⁴	RF GPS (GLONASS optional), IEEE1588v2, SyncE	RF GPS (GLONASS optional), IEEE1588v2, SyncE
Backhaul	100/1000 Base-T or Fiber	100/1000 Base-T or Fiber
Mounting	Pole or Wall	Pole or Wall
Antennas ⁵	OMNI: Stick, Directional: External, Integrated	OMNI: Stick, Directional: External, Integrated

¹ Product specifications and features supported are subject to change. ² Bands supported is dependent on market prioritization. ³ Temperature assumes solar loading. Optional +55C hardware available based on market prioritization. ⁴ Hardware supports phase 1588v2. Commercial support requires market prioritization. ⁵ Integrated directional antenna specifications and volume/weight impact under investigation and subject to market prioritization.

Interfaces - Puertos Nokia FlexiZone

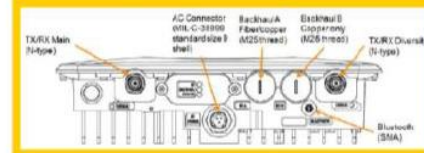
Flexi Zone Micro Interfaces



Cabling Flexi Zone Micro BTS

Interface	Number of Interfaces	Connector type
TXRX Main	1	N-type
TXRX Diversity	1	N-type
AC Connector	1	IEC C-13/15 standard size 3 pin
Backhaul A (Fiber/SFP)	1	M25 thread
Backhaul B (RJ45)	1	8P8C
Bluetooth	1	SMA

Flexi Zone Micro BTS front module interfaces.



NOKIA

Materiales de instalación.

1. Cable AC encauchetado 3 X 10 AWG, colores (+ Negro, -Blanco, Tierra Verde)
2. Cable multipar (Cable UTP/FTP/STP Interperie)
3. Conector RJ45 Blidado con bota
4. Toma corriente doble con polo a tierra Leviton, con tapa plástica
5. Caja eléctrica metálica 10x10 cmts
6. Tapa caja metálica para tomacorriente
7. Clavija encauchetada con polo a tierra
8. Coraza americana 3/4" (caso alambrado sobre cielo raso)
9. Canaleta plástica de 2 vías, 4x 6cmts y accesorios (caso alambrado en pared o cielo raso)
10. Terminales rectos coraza 3/4"
11. Terminales de ojo para cable #10
12. Breaker monopolar de 20 Amp.
13. Amarres T30 y T4 para peinado de cables y marquillas.
14. Chazos expensivo de pared metálicos de 1/2 (anclar plinth)
15. Chazos plásticos pared (fijar canaleta)

ARMADO DE EQUIPO

1. Armado y montaje de plinth



2. Instalación de antena bluetooth



3. Instalación de antenas



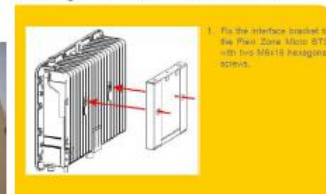
Enclaje en pared



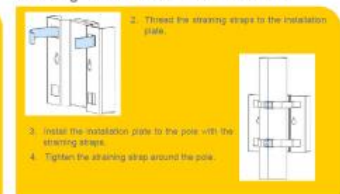
NOKIA

MONTAJE EN POLE

Installing Flexi Zone Micro BTS on a Pole



Installing Flexi Zone Micro BTS on a Pole



4. Instalación de antena GPS



ARMADO DE EQUIPO

5. Conexión cable AC



Instalación sobre cielo raso con coraza americana de 3/4"



En pared o cielo raso en canaleta plastica de dos vias de 4x6 cmts



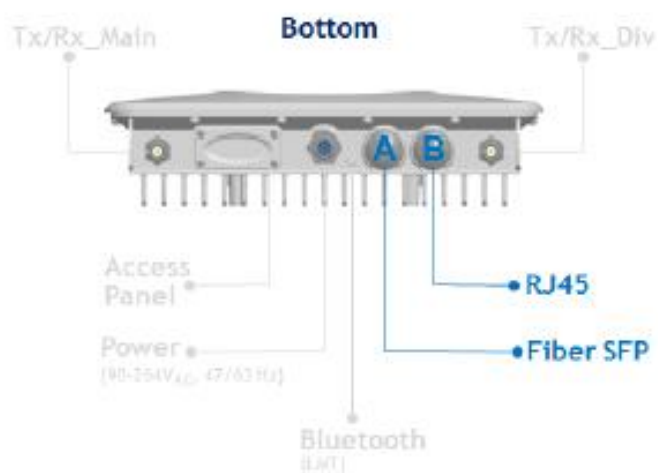
Conexión en breaker monopolar de 20 Amp.



La acometida del cableado de AC desde la toma de servicio hasta tablero de distribución se realiza de acuerdo a sitio

NOKIA

6. Cableado de TX



Por cable UTP (conector RJ 45 blindado)

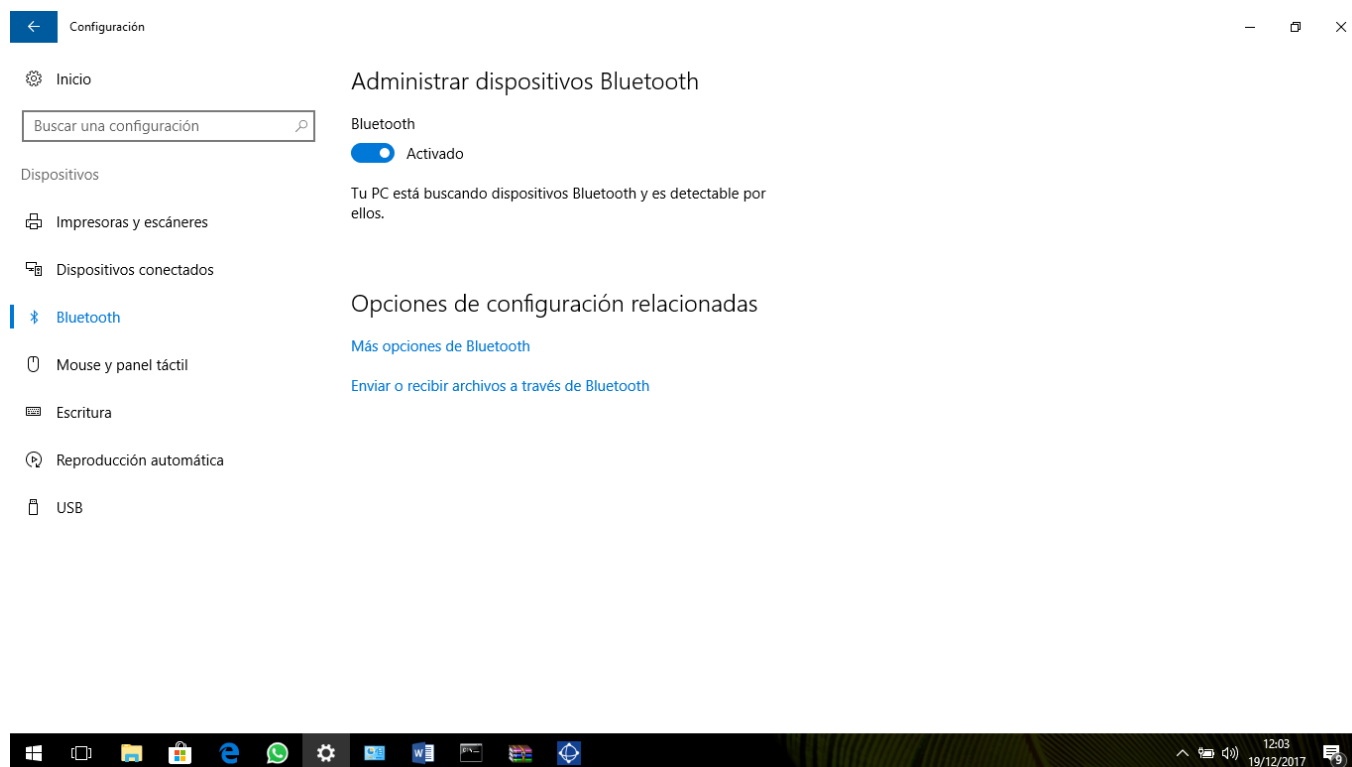


Por fibra

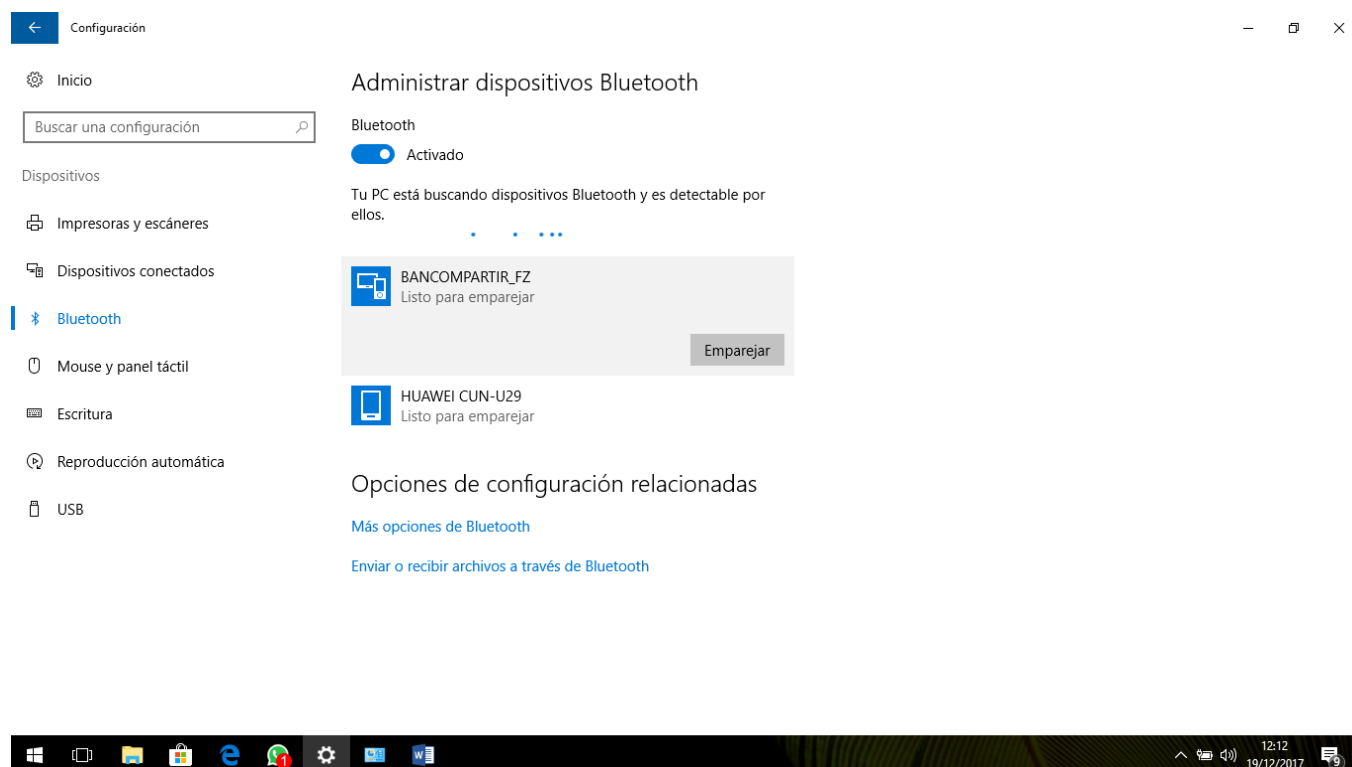
NOKIA



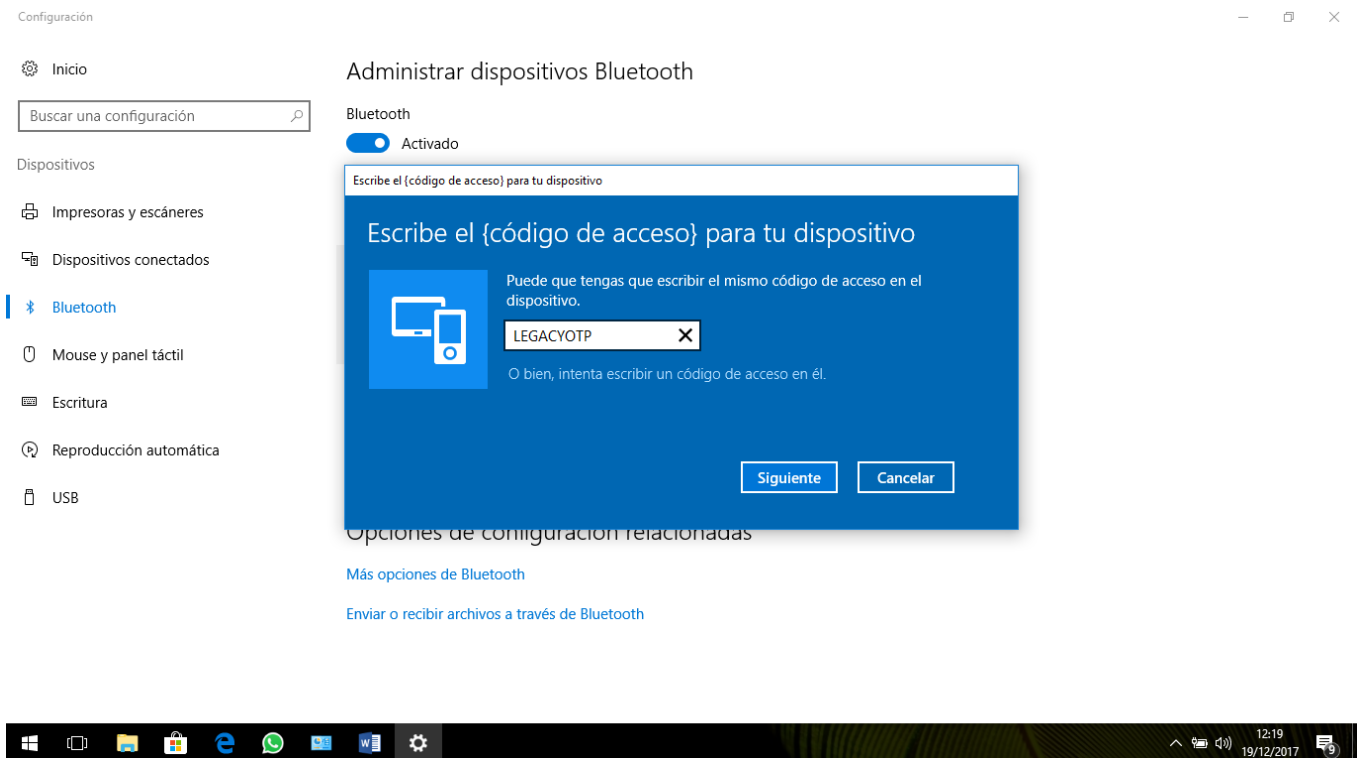
1. Conexión Activando Bluetooth del Pc (Laptop).



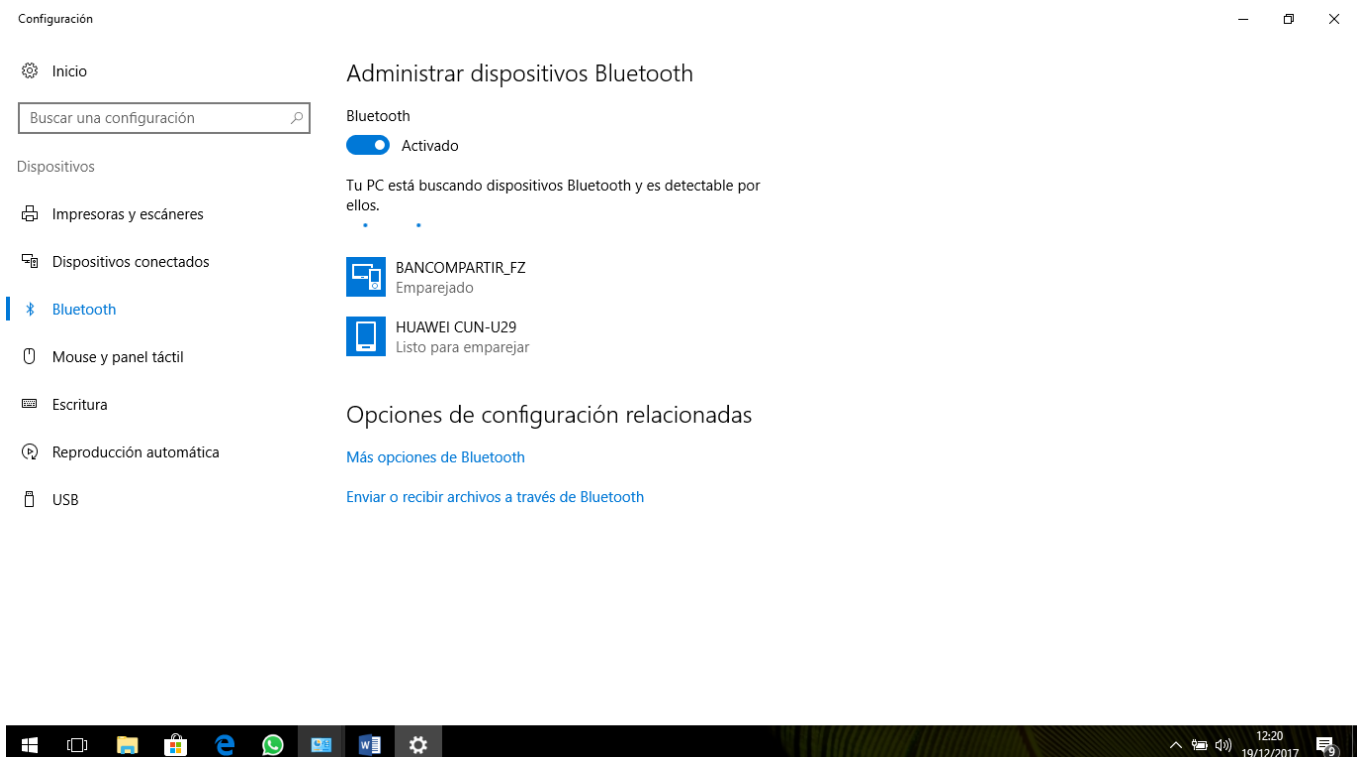
2. Buscar La Estación Base Indoor (En este caso: BANCOMPARTIR_FZ)



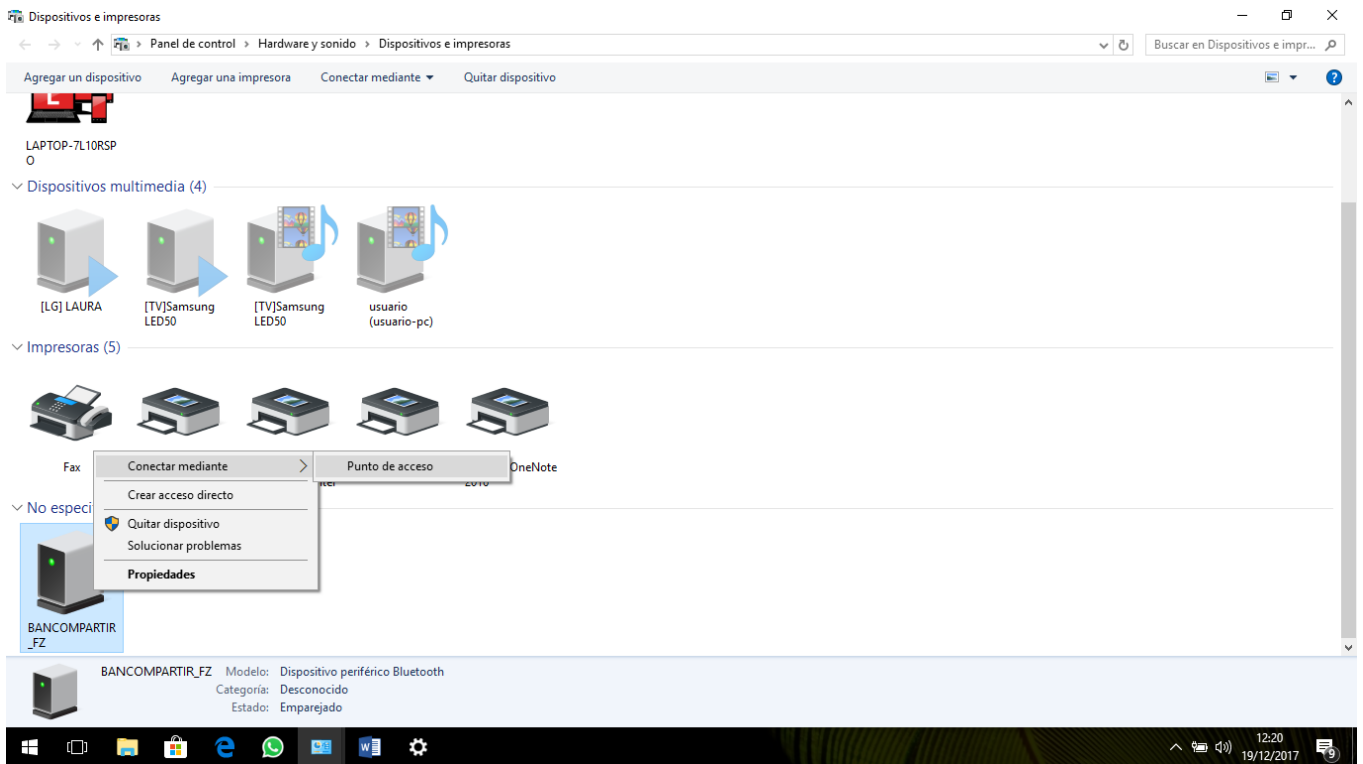
3. Ingresar Código de Acceso (Clave): LEGACYOTP



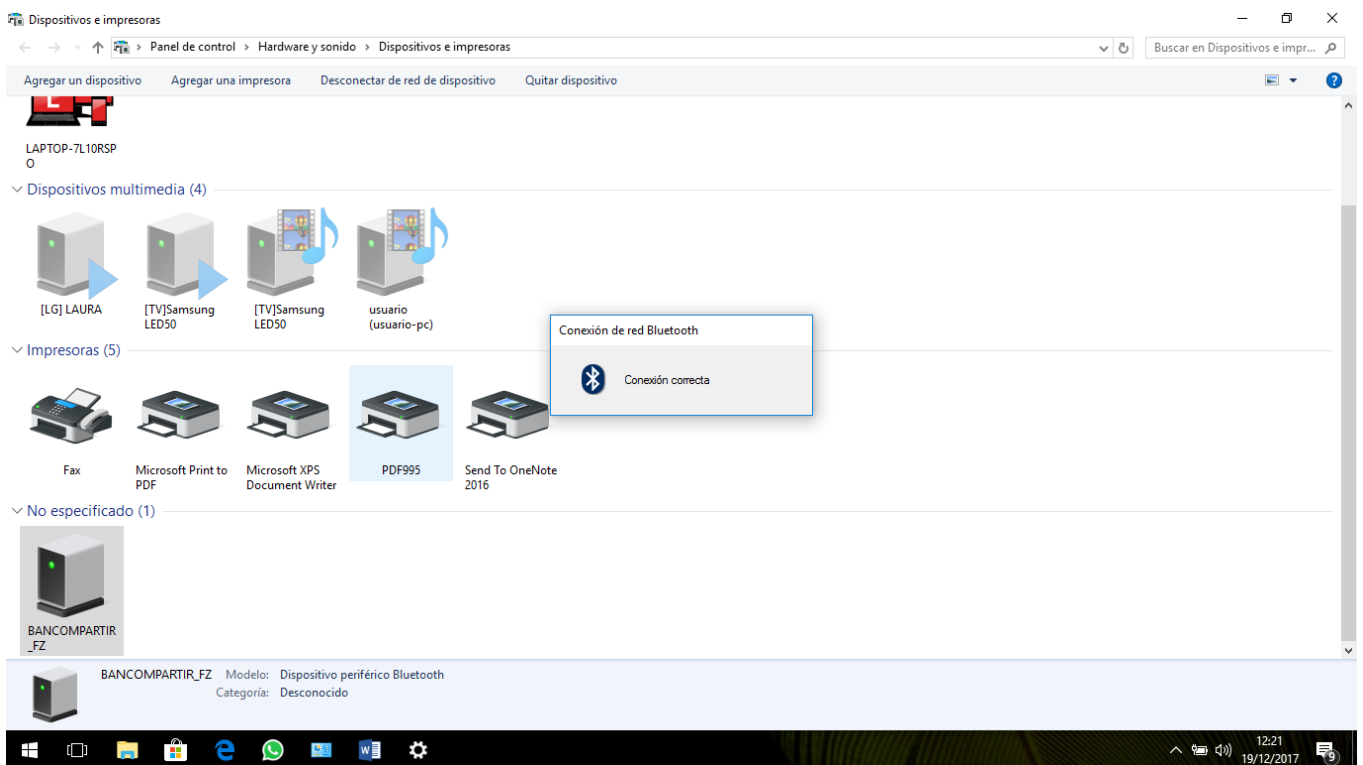
4. Validar Emparejamiento entre los dos (2) Dispositivos: Pc Portatil y Nokia FlexiZone



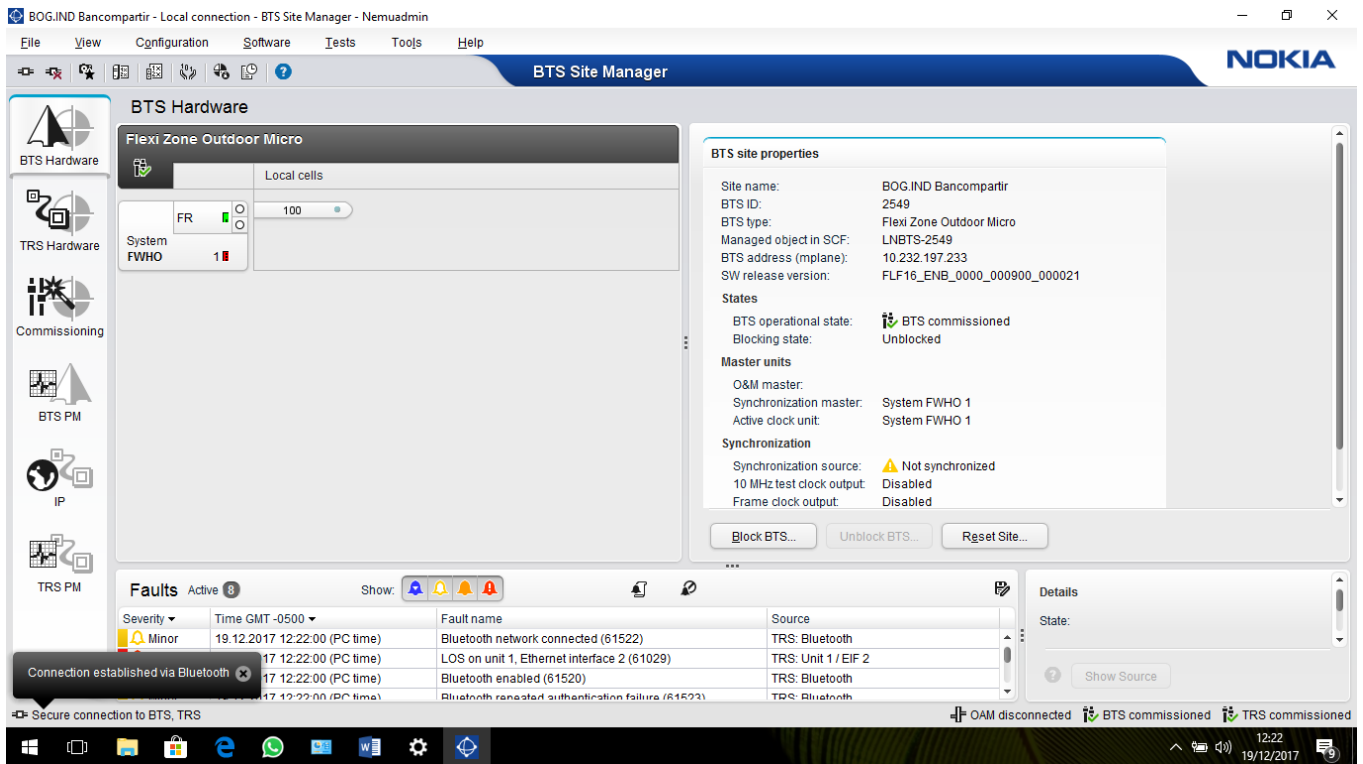
5. En Dispositivos e Impresoras Crear el Punto de Acceso:



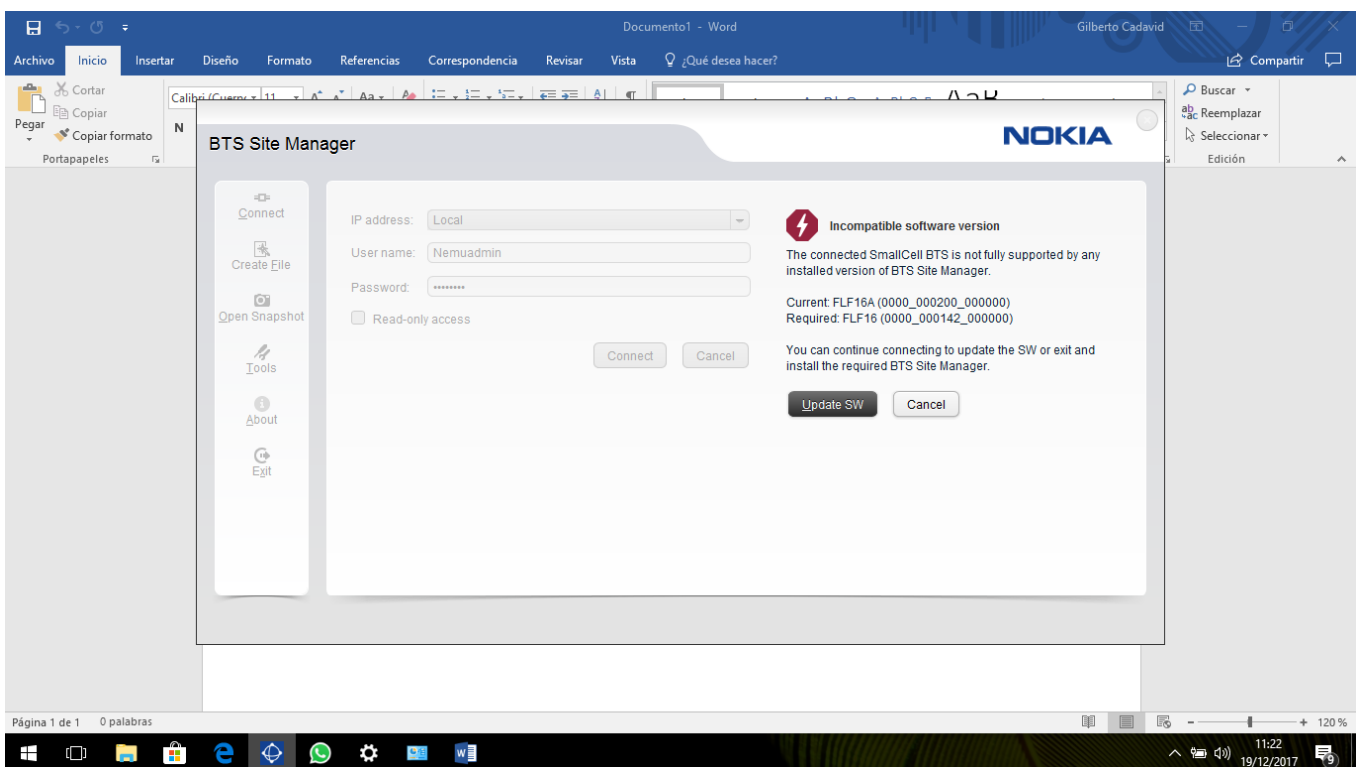
6. Validar La Conexión como Punto de Acceso:



7. Conexión a través de BTS Site Manager en Versión (FLF16_ENB_0000_000900_000021) como Ejemplo.



8. Acorde a la Versión Requerida se Realiza Update/DownGrade según Necesidad.



9. Enlace Descarga de Versión Pc + Flexi-Zone:

Link:

https://www.4shared.com/zip/SreUYFlwca/BTSSiteEM-FLF16-0000_000142_00.html

Link:

<https://wetransfer.com/downloads/6ce022c734df8d165609129c1d97b19020180206212647/cbb61a1da33e607c1d1816879a4cc54c20180206212647/7c2e45>

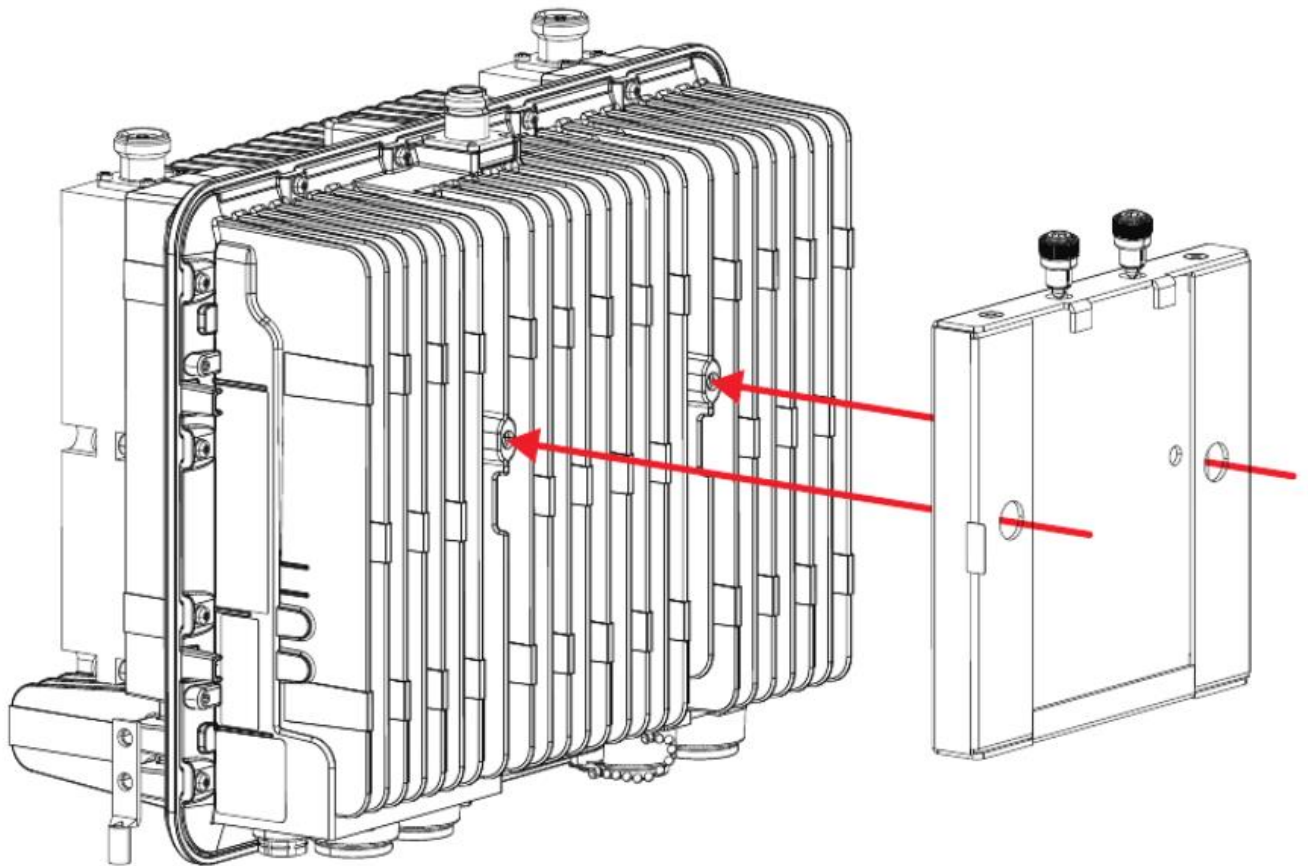
Link:

<https://we.tl/Psd39VRqld>

Fix the interface bracket to the Flexi Zone Micro BTS using two M6 cap screws and washers included with the mounting bracket.

Tighten the screws to 5.1 Nm (3.8 ft-lb).

Figure 4 Fixing the interface bracket



Nokia Small Cells Rock in Sonera's Network

Nokia Flexi Zone Outdoor Micro & Indoor Pico BTS
FDD-LTE 2600MHz & 3G 2100MHz

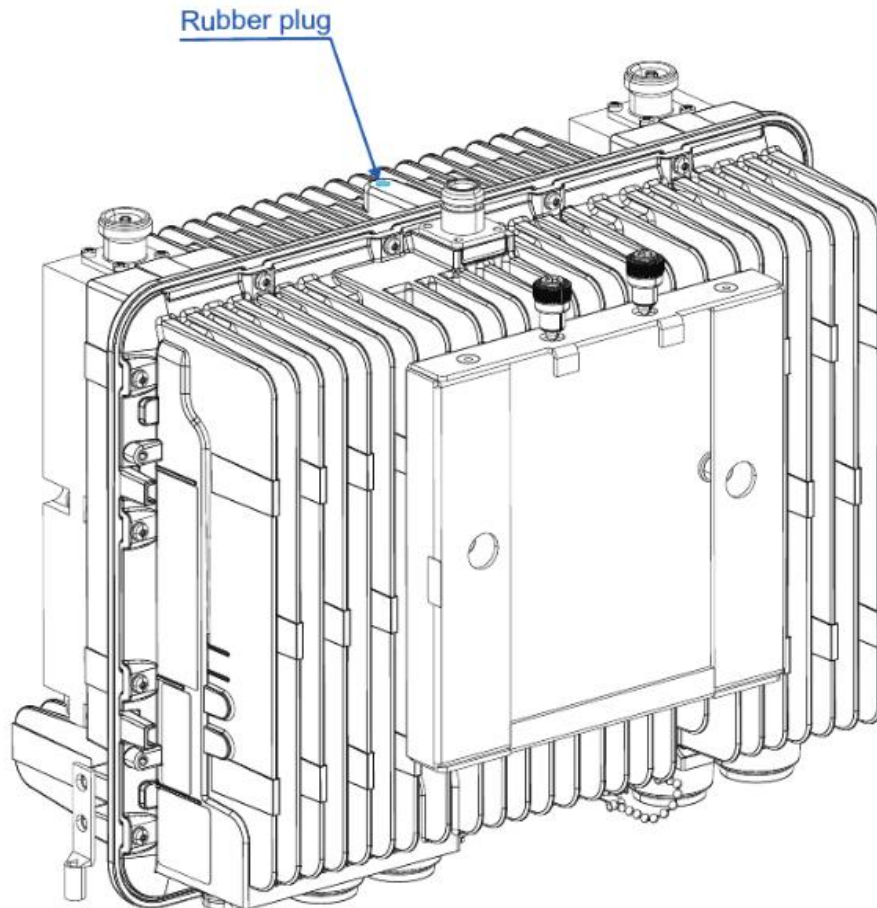


Install the BTS to the static mounting bracket.



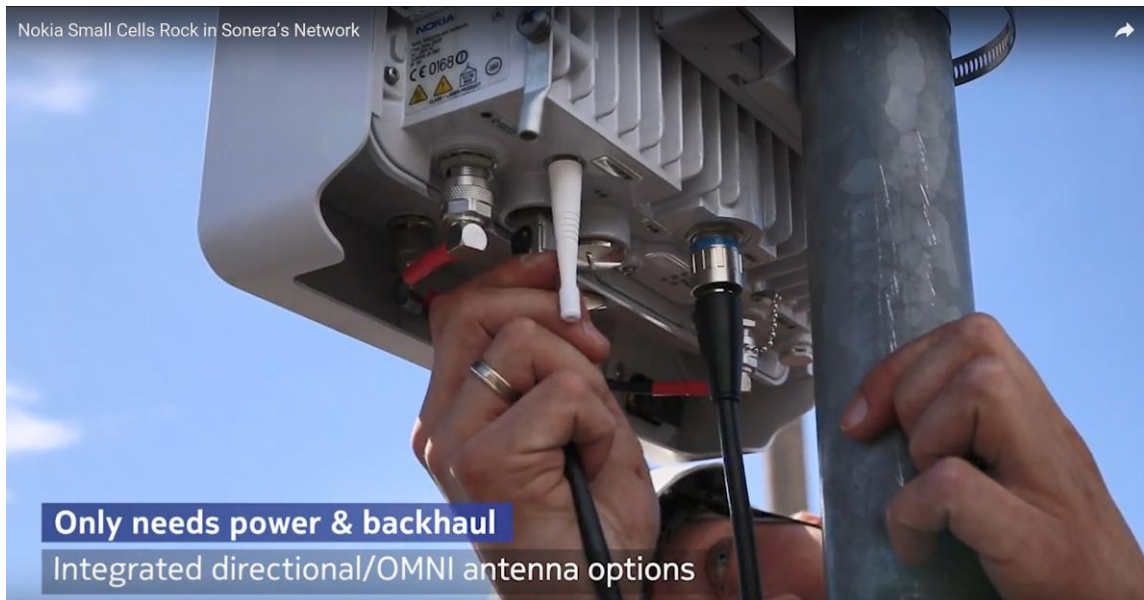
NOTICE: If you lift the unit with a rope, use an M6 size eyebolt with a M6 x 1.0 thread. The eyebolt should be fixed to the top of the BTS, in place of the rubber plug. The eyebolt should be removed and replaced with the rubber plug after installing the BTS. The eyebolt is not part of the delivery and must be ordered separately.

Figure 8 Rubber plug location



- Position the BTS with the interface bracket aligned directly above the static mounting bracket.
- Slide down the BTS until it is fully located and seated onto the static bracket.
- Hand start the thumb screws (M6) to secure BTS to static bracket.
- Torque all M6 screws to 5.1 Nm (3.8 ft-lb).

Nokia Small Cells Rock in Sonera's Network



Only needs power & backhaul

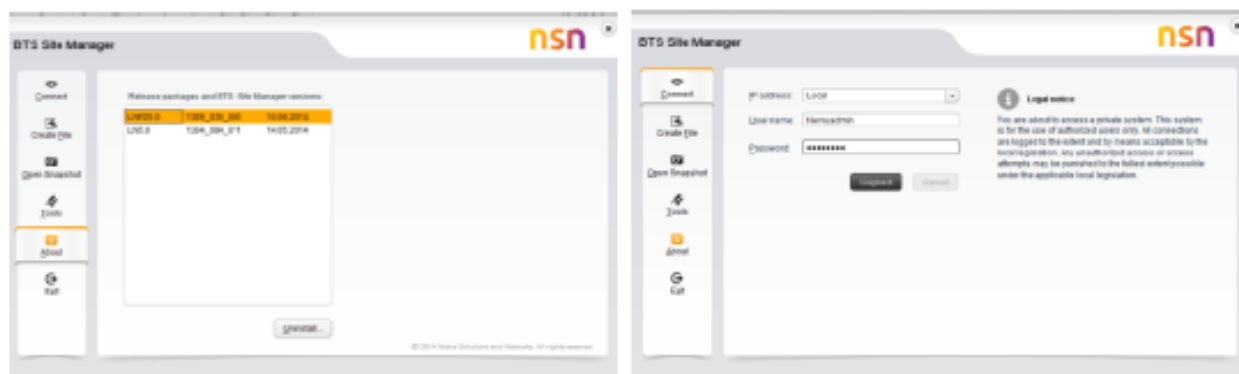
Integrated directional/OMNI antenna options

Ejemplo Commissioning FlexiZone en Versión LNFZ 5.0

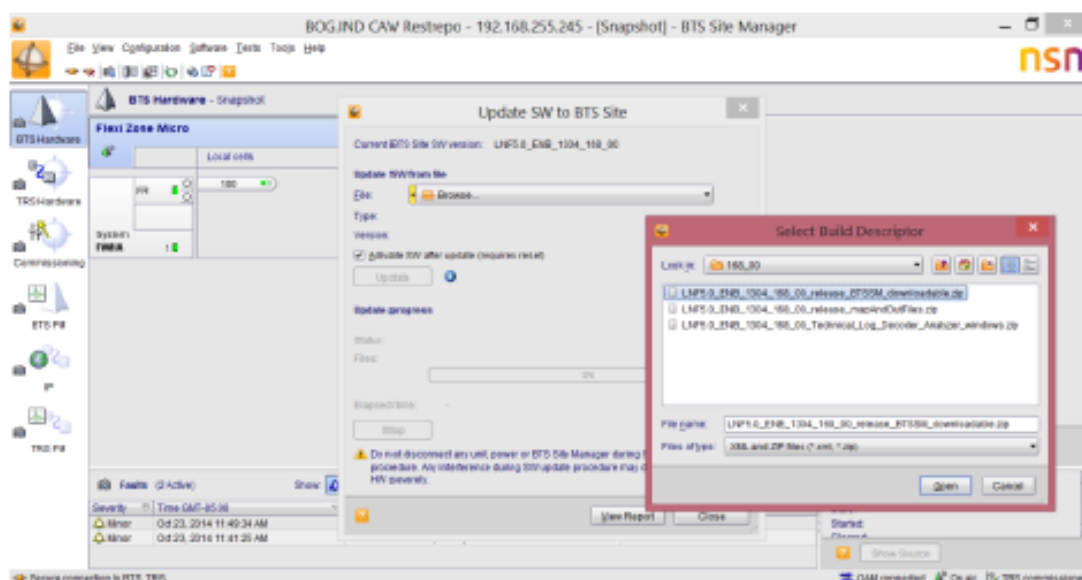
8. COMISIONAMIENTO

CONEXIÓN LOCAL PUERTO LOCAL RJ 45

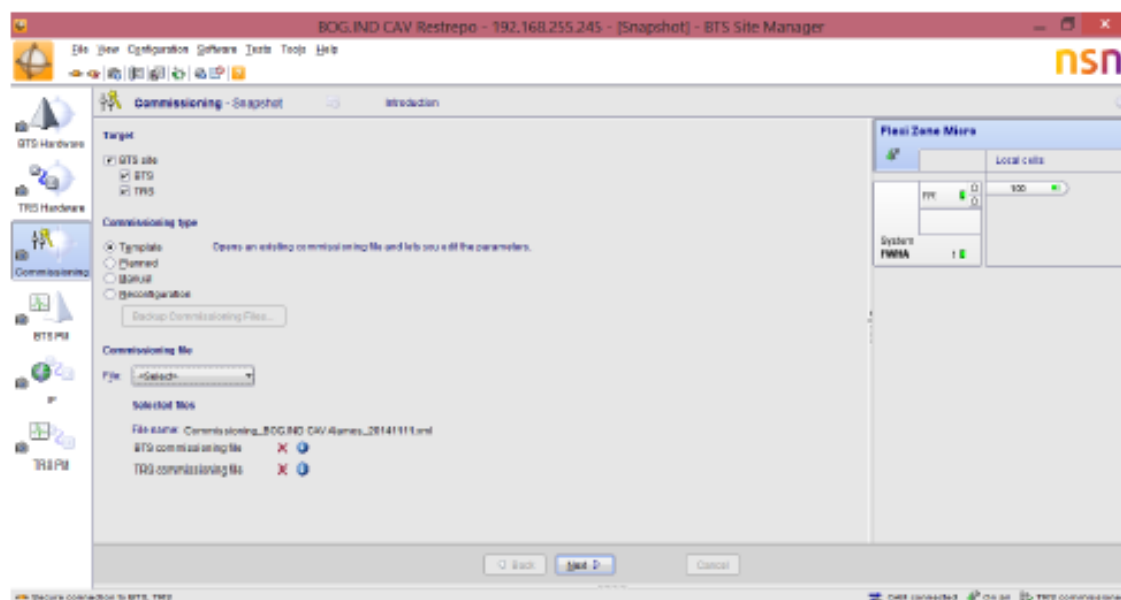
ABRIR BTS MANAGER VERSION LNFZ 5.0

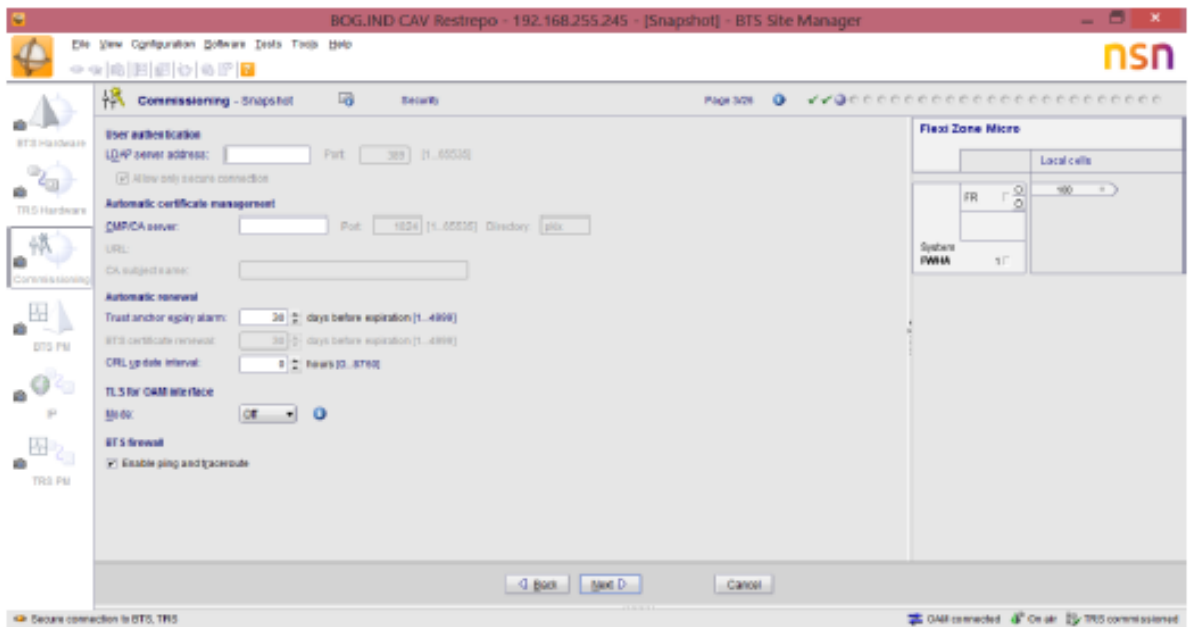
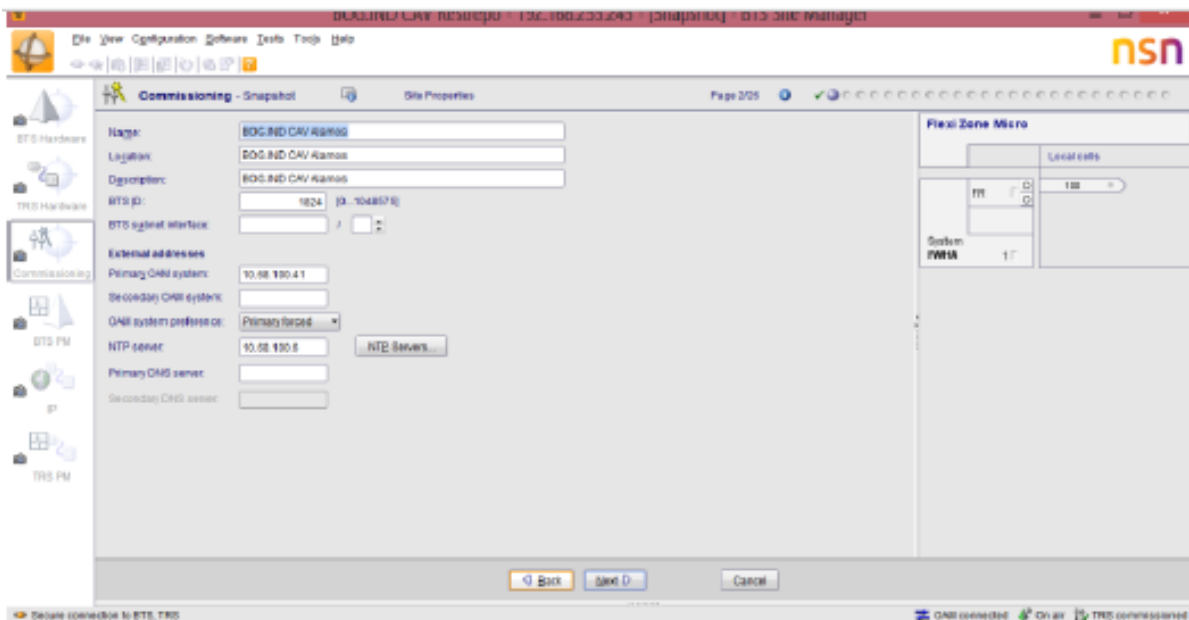


1. Cargar SW version

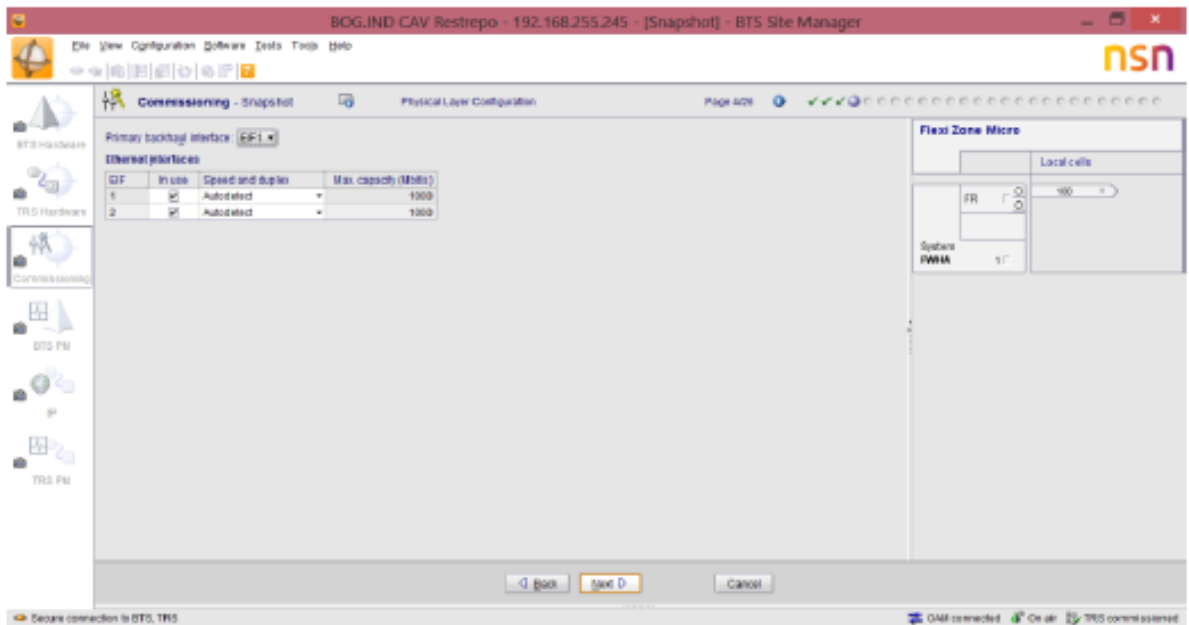


2. Comisionamiento , Cargar Template BTS y TRS





Se selecciona interface EF1



...Fin...