# NS Series V7.00138 - MRG Related Modification -

### **November 2018**

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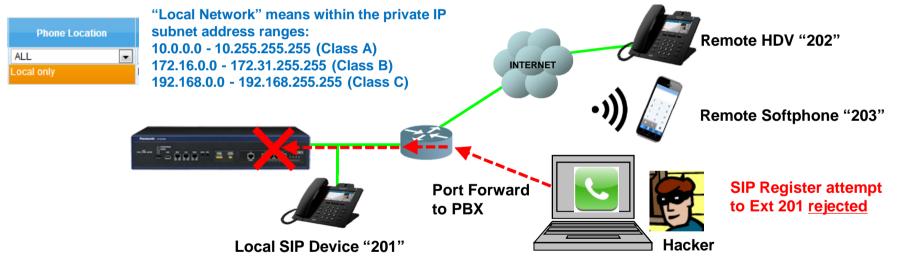
## **1. Local/Remote IP Registration**



#### Panasonic V4.6 upwards SIP Local / Remote Security

SIP Extension port security was enhanced with NS V4.6 so that Local SIP Extension ports could only be connected to by Local devices as follows:

When "Local" is set for a SIP extension port then any connection from a <u>remote</u> device is blocked, even if SIP registration name and password is correct. NOTE: No blocking is applied to IP-PT Extensions (NT, IP Softphone etc).



#### Panasonic V4.6 upwards SIP Local / Remote Security

This security measure is Enabled by default but can be Disabled by Reserved Bit programming using the Sales Company Mode login:

Enabled (Bit 19-3=Disable) Disabled (Bit 19-3=Enable)

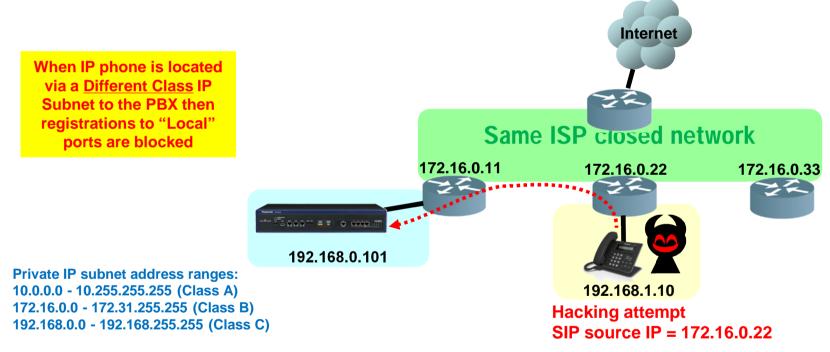
👌 Users	Â(	System Optio	ons								
PBX Configuration		Option 1 Opt	ion 2 Opti	on 3 Option	4 Option 5	5 Option 6 (CTI)	Option 7	Option 8	Option 9	Reserved (bytes)	Reserved (bits)
1.Configuration		Enabl	P								
😂 2.System		Disab									
📋 1.Date & Time		No.	0	1	2	3	4	5	6	7	
🐗 2.Operator & BGM		19									
A Timers & Counters		15									

When 19-3 is left as "Disable" the security measure is <u>applied</u> to the SIP Ext ports.

When 19-3 is set to "Enable" then the security measures are not applied.

#### Panasonic V7 New IP Class Security

With V7 there is an additional security control option (Bit 1F-6) available to restrict access to "Local" ports from private IP Subnets that are in a <u>Different Class</u> to the PBX. This helps to prevent potential attacks from within wide area networks or with same Service Provider networks.



#### Panasonic V7.00138 New IP Class Security

The new security measure is Disabled by default and can be Enabled by Reserved Bit 1F-6:

Disabled (Bit 1F-6=Disable) Enabled (Bit 1F-6=Enable)

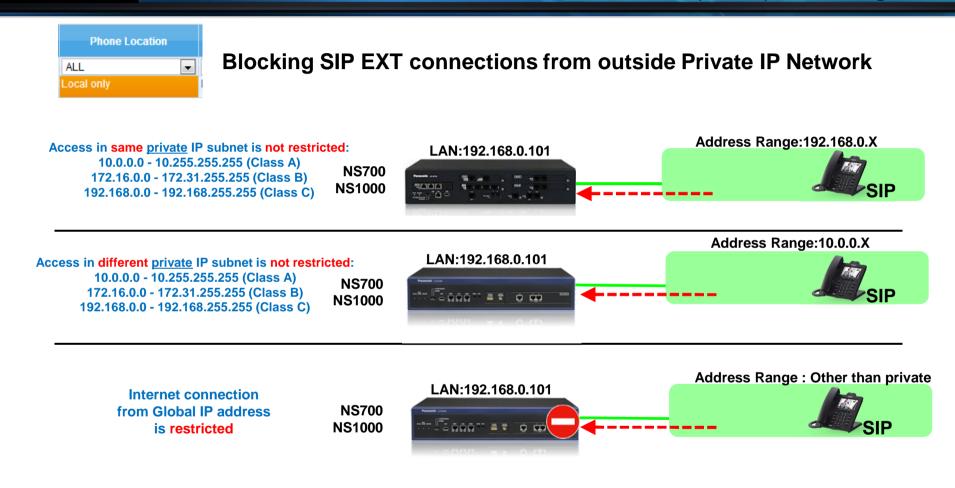
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PBX Configuration		Option 1	Option 2	Option 3	Option 4	Option 5	Option 6 (CTI)	Option 7	Option 8	Option 9	Reserved (bytes)	Reserved (bits)
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3.Timers & Counters		11-										

When 1F-6 is left as "Disable" this new security measure is <u>not applied</u> to the SIP Ext ports.

When 1F-6 is set to "Enable" then this new security measure is applied.

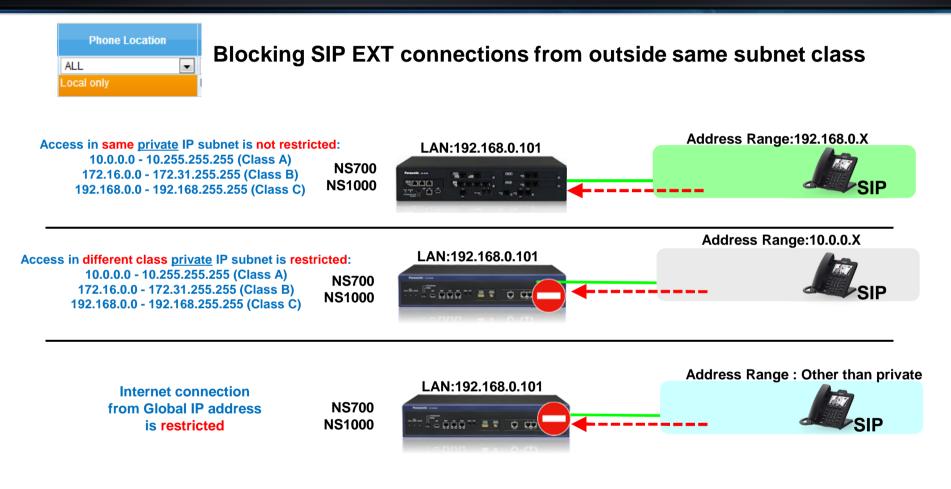
#### Panasonic V4.6 And Later

19-3=Disable (Default) – Local Ports Restricted 1F-6=Disable (Default) – IP Class ignored

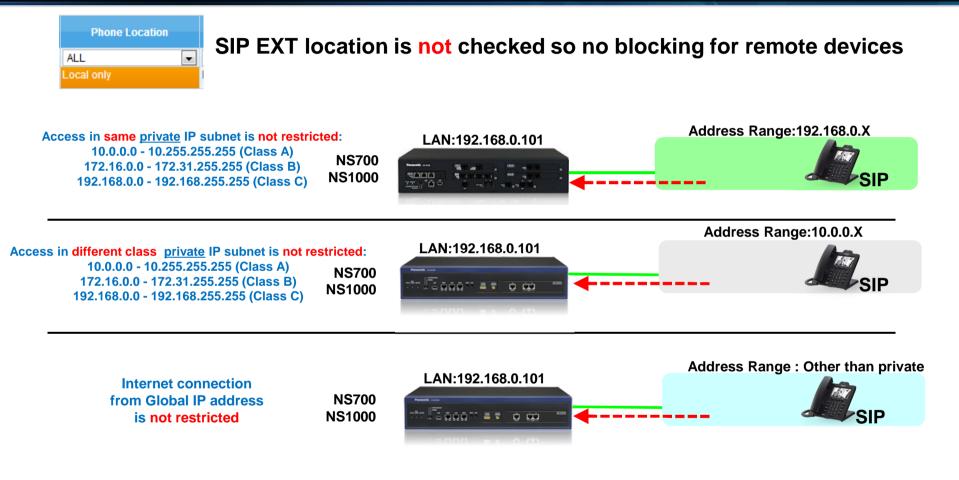


#### Panasonic V7.00138 Feature

19-3=Disable (Default) – Local Ports Restricted 1F-6=Enable – Different IP Class Restricted



#### Panasonic Without Local/Remote Restriction 19-3=Enable



## **2. RTP destination**



#### Panasonic Change RTP Destination in SDP

New Reserved Bit 1F-6 also affects the flow of RTP traffic between IP Terminals, the PBX/DSP and the internet router as negotiated by Session Description Protocol (SDP).

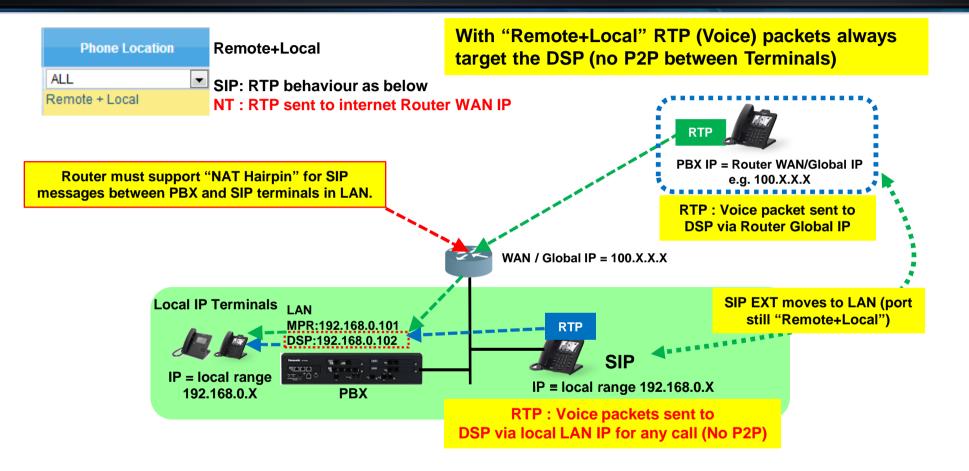
Disable(Default) = V6 or before behavior



The following slides explain in detail how RTP traffic and DSP usage are affected by v7.00138 firmware and the new special Reserved Bit settings.

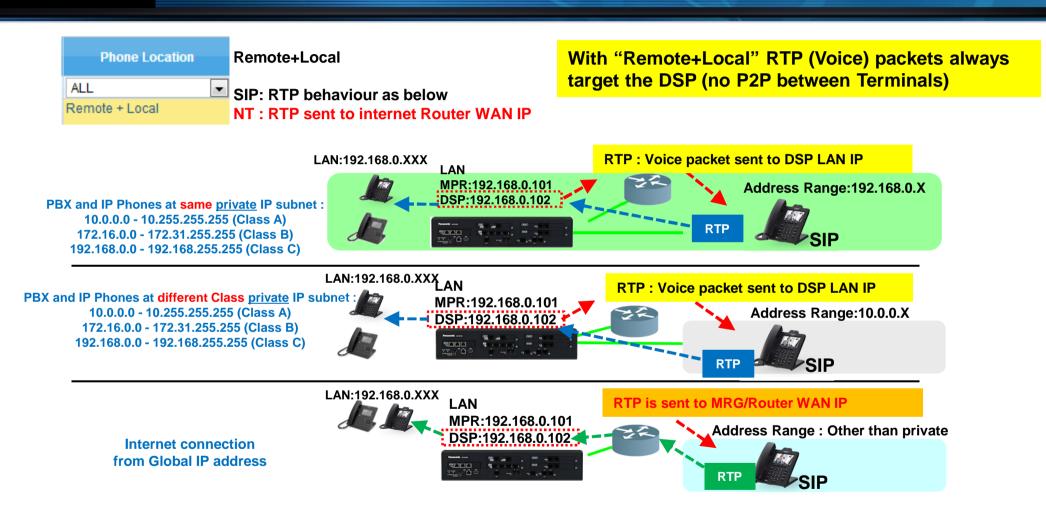
#### Panasonic RTP Behaviour

1F-6=Disable (V7.00138 Default)



#### Panasonic RTP Behaviour

1F-6=Disable (V7.00138 Default)



#### Panasonic RTP Behaviour

1F-6=Enable

