

464XLAT CLAT IPv4 Address  
[draft-byrne-v6ops-clatip-00](#)

## Abstract

DS-Lite [[RFC6333](#)] directs IANA to reserve 192.0.0.0/29 for the use of the B4 element. This memo generalizes that reservation to include a similar purpose on the host-based CLAT IPv4 interfaces in the 464XLAT architecture [[RFC6877](#)].

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## **1 Introduction**

464XLAT [[RFC6877](#)] describes an architecture for providing IPv4 communication over an IPv6-only network. One of the methods described in [[RFC6877](#)] is for the client side translator (CLAT) to be embedded in the host, such as a smartphone. In this scenario, the host must have an IPv4 address configured to present to the network stack and for applications to bind sockets.

Any locally unique IPv4 address can be configured on the host-based 464XLAT CLAT interface. This memo directs IANA to update its registry of 192.0.0.0/29 to include the use for the IPv4 interface in host based CLAT by changing the allocation from DS-Lite to "IPv6 Transition Technology System Subnet".

## **2. Choosing 192.0.0.0/29**

To avoid conflicts with any other network that may communicate with the CLAT, a unique address must be assigned.

IANA has defined a well-known range, 192.0.0.0/29, in [[RFC6333](#)], which is dedicated for DS-lite. 192.0.0.0 is the reserved subnet address. As defined in [[RFC6333](#)], this subnet is only present between the B4 and the AFTR and is never emitted "on the wire".

This range may be generalized to include 464XLAT with host based CLAT and will continue to never be emitted "on the wire".

## **3 Security Considerations**

No new security considerations beyond what is described [[RFC6333](#)] and [[RFC6877](#)].

## **4 IANA Considerations**

IANA is directed to generalize the reservation of 192.0.0.0/29 from DS-lite to "IPv6 Transition Technology System Subnet".

## **5 References**

### **5.1 Normative References**

[RFC6333] Durand, A., Droms, R., Woodyatt, J., and Y. Lee, "Dual-Stack Lite Broadband Deployments Following IPv4 Exhaustion", [RFC 6333](#), August 2011.



[RFC6877] Mawatari, M., Kawashima, M., and C. Byrne, "464XLAT:  
Combination of Stateful and Stateless Translation",  
[RFC6877](#), April 2013.

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