

DYNAMICS DNS UPDATE

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DNS Problems (for Large Zones)

Quick Propagation of
Changed Information
of Large Zone

Timely Notification
of Zone Change

Update of Large Zone

DNS IN

I - Incremental
Zone Transfer

N - Notify

D - Dynamic Update

DNS Problems (for Large Zones)

Quick Propagation of Changed Information of Large Zone

- > Incremental Zone Transfer

Timely Notification of Zone Change

- > Notify

Update of Large Zone

- > Dynamic Update

DNS IN

First Proposed by Anant
Kumar, Steve Hotz and
Jon Postel

Nearly Approved in
March 1993 26th IETF

But...

IXF (Incremental Zone Transfer)

Send DIFF only

May Always Fall Back to AXFR

Multiple DIFFs between Multiple Versions may be Sent

UDP IXFR Supported

RFC 1995 - the First Proposed Standard by Japanese

Notify

Simply Just Send a Message

RFC 1996

Dynamic Update

Interact with the
Primary Server Only

Complex Preconditions Provided

XFR DIFF format should
have been used

No Security (RFC 2136)

With Complex Security (RFC 2137)

Current Status of DNS ID

In Proposed Standard

Interoperability Tests
are now in Progress

Future of DNS

(to be discussed in IETF in
Washington D.C.)

Scalability?

Security?

Packet Size Limitation?

Address AutoConf?