



RIPE65 @ Amsterdam

EIX (Switch) wishlist status update

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EIX wishlist update

- version 4.0.0 is online

A screenshot of a web browser displaying the EIX Working Group page on the RIPE website. The browser's address bar shows 'www.ripe.net/ripe/groups/wg/eix'. The page has a dark green navigation bar with tabs for 'Policy Development', 'Meetings', 'Groups', 'Mailing Lists', and 'RIPE Document Store'. Below the navigation bar, there are links for 'Active Working Groups', 'Task Forces', and 'BoF (Birds of a Feather) Gatherings'. The main content area features the heading 'EIX Working Group' and a description of the group's purpose. A 'Subscribe to the Mailing List' button is visible. On the right side, there is a 'Navigation' sidebar with a list of links: 'EIX Working Group', 'Mailing List Archives', 'Minutes', 'IXP "Wishlist"', 'IXP Switching Wishlist (Obsolete)', 'Working Group Mailing Lists', 'RIPE Meetings', 'Programme Committee', 'Working Group Chair Job Description and Procedures', and 'Inactive Working Groups'. A large green arrow points from the 'IXP "Wishlist"' link in the sidebar towards the main content area. Below the 'Navigation' sidebar, there is a 'Mailing Lists' section with a link to 'EIX Working Group' and a 'Subscribe' button.



EIX wishlist

- updated version online since August 23rd 2012
- comments received after RIPE64 are now being implemented
- new ideas...



EIX wishlist - what next?

- feedback-spreadsheet for vendors
 - makes comparison easier
 - compare vendors / products
 - csv format for compatibility

- same structure as wishlist
 - use only sections that are relevant

- attached to pdf
 - no problem with versions
 - one document solves all problems :-)



EIX wishlist - what next?

A screenshot of a PDF viewer window titled 'eixwishlistv4.0.1.pdf'. The window shows a toolbar with various icons and a sidebar on the left with an 'Attachments' panel. In the attachments panel, a file named 'eixwishlistv4.0.1.csv' is listed and circled in green. The main content area of the PDF displays the title 'Internet Exchange Point "Wishlist"' in red, followed by the version '4.0.1', the date 'July 2012', and a URL. Below this, three authors are listed with their names and email addresses: Mike Hughes (Freelance Internet Expert), Martin Pels (Amsterdam Internet eXchange), and Harald Michl (Vienna Internet eXchange). The document content includes sections for '1 Abstract' and '2 Background to Version 4'.

Internet Exchange Point "Wishlist"

Version 4.0.1
July 2012
<http://www.ripe.net/ripe/groups/wg/eix/ixp-switching-wishlist>

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1 Abstract

With the continued growth of video and cloud based services, Internet traffic continues to grow. Public peering via Internet Exchange points continues to grow in terms of traffic carried and the number of ports required.

The IXP operators feel that having the right tools and features implemented in the equipment they deploy will play an important part of scaling Ethernet technology to continue to meet the demands placed upon Exchange Points.

This is an informational document to outline the various features which IXPs would like to see implemented in core Ethernet (Switching) products.

In general the wishes defined in this document should be understood as logical AND wherever it makes operational sense. That means all features on the wishlist should be configurable and usable at the same time and not exclusive or.

2 Background to Version 4

The "Internet Exchange Point Switching Wishlist" exists since about 2000 and at the RIPE63 meeting in Vienna Andy Davidson (Working Group Chair) brought up the idea to update the then current version 3.0.2 from July 2005. This Version of 2012 now tries to again focus on the current demands of Internet Exchange Points, primarily in Europe, but also globally.

While in the past it was quite common to speak about Exchange Point Switch Infrastructure the current implementations show that the requirements for running an Exchange Point have changed.

In order to scale their business, IXP switching devices are now using functionality that lies in the realm of routers, rather than switches, such as implementing the Exchange Point using a VPLS instance. Using a VPLS service to



EIX wishlist - what next?

	A	B
1		product x / vendor y
2	Ports	
3	max. # of 1 Ports	960
4	max. # of 10G Ports	128
5	max. # of 100G Ports	16
6		
7	Power	
8	max power consumption 1G ports	500
9	max power consumption 10G ports	1500
10	max power consumption 100G ports	5000

example



EIX wishlist - what next?

- is that useful?
- we need your feedback!
- please tell us now or send comments to eix-wg@ripe.net!

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Internet Exchange Point “Wishlist”

Questions / Comments ?

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