

LINX113

Technology Update

Richard Petrie - CTO

Technology Update

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Significant Projects



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- Technical Service Inventory (TSI)
 - 1. Implementation of all PI data into central database
 - 2. Endpoint migration, extracting technical data from the Sugar CRM system, in order to enable; 3 and 4
 - 3. Further development of the User Interface (TSI-UI) for network engineers to perform complex engineering functions
 - 4. Release of the new CRM UI for business users
- > Portal
 - > Mike gave an overview of the look and feel at LINX112
 - > More on progress in section 2



> Self-service

- > Linked to the ongoing portal work and NCA
- > We have the organisational self-service such as contact management
- > As well as network level self-service, such as, MAC address change
 - > We see around 200 member requests per year



UI Overview





> Exchanges

- > Capacity work, mainly on;
 - > ISLs on LON1 and LON2
 - > Ordering and readiness of 100GE cards (We are seeing long lead times)
- Closed User Groups (CuGs) and PVLAN work to support product, (see Mike's update later on)
- > 400GE, detailed update comes later
- > Router Servers
 - BCP214 Automation and planning work that Mike covers in our RS product section
 - > Openbgpd testing, Mo is working with DE-CIX, AMS-IX, Netnod and the RSSF to test and validate the latest version of Openbgpd



- Monitoring and Observability
 - > Icinga migrations from the old Nagios system to Icinga
 - > Intelligent Ops testing with Selector.ai
 - Prometheus development for LINX stats (internal) and member facing stats (backend improvement)

Security and Assurance

- > We are reviewing and working towards the ISO27001 framework and certification
- > We will be conducting a secure software development life cycle (Secure-SDLC) review
- > We are introducing a Member MFA system based on Okta
- > We will be reviewing the telecom security requirements and the technical impact on LINX





Portal Developments



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Portal

- Mike gave an update at LINX112, covering;
 - > The new look and feel to the portal
 - > Our drive to introduce MFA which will us to enable secure self-service
 - https://www.linx.net/wp-content/uploads/LINX112-ProductUpdate-MikeHellers.pdf
- Riccardo also presented on Software Development, he covered
 - > Portal roadmap
 - > Automation work
 - Systems development around the technical service inventory (as mentions in the projects section)
 - https://www.linx.net/wp-content/uploads/LINX112-Software-<u>RiccardoVerzeni.pdf</u>



Portal

- Beta launch is expected this program increment (PI-02) and will go to a selected sub-set of members
- New features to expect are expected to be released, like MAC address change
- The new portal will be released to all in PI-03 but to run in parallel to the old portal
- We will be looking ahead to PI-04, as to what more we can provide with feedback from the beta team in PI-03



Portal mapping to Pls







400GE

400GE

- Member interest is increasing with at least three members enquiring about slate summer 2021 deployments in London
- Testing continues across multiple vendors; Juniper Nokia and Edgecore
- For LON1as a priority;
 - > We will be running final acceptance testing with Juniper on the MX960, MPC10 cards as a low volume onboarding solution
 - An EVPN interop PoC with Nokia on their SR-7s solution working as a foreign PE in LON1
 - And we are tracking the Juniper MX10K-LC9600 400GE solution maturity for 2022



400GE

- Member interest is increasing with at least three members enquiring about slate summer 2021 deployments in London
- Testing continues across multiple vendors; Juniper Nokia and Edgecore
- For LON1as a priority;
- Mike (Product) and Mariano (Architecture) will be speaking to interested members on optical interface options and acceptance testing





Email consultation



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Change to LINX Email Management

- > LINX has managed the staff and member email setup as one.
- This has been done via a set of on-premise servers, across the IMAP and SMTP functions.
- In the recent years we have moved all staff email to the cloudbased Microsoft Office (MS) service.
- However, the authoritative domain for @linx.net remains with the on premise LINX SMTP servers so we can service the member communication, here we are re-directing any staff email to the MS office 365 environment.



Change to LINX Email Management

- We propose to break this setup and introduce a new member communication domain.
 - > We will add to the LINX SMTP on-premise cluster the @lists.linx.net domain
 - > This will be used for our member mailing lists
 - > So that the main @linx.net e-mail domain can be directed straight to the MS Office365.



Change to LINX Email Management

> What does this mean for the membership?

- 1. We will put forward a resolution to change the stated @linx.net addresses to the new @lists.linx.net in all references in the MoU.
- 2. If there are no objections to this consultation, we will by 01st July 2021, start to send out member emails to the @lists.linx.net domain as well as the @linx.net domain.
- 3. If the resolution passes at the EGM in November we will shortly after stop sending emails to the @linx.net domain.
- 4. We expect members to update any email routing configurations for the MoU listed addresses as well as those in the supporting documentation, such as the 'LAN announcements reference document'.
- 5. We will move the authoritative domain for @linx.net to the MS office365 environment after the resolution passes.





Thank you

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