

IPv6 deployment at Colruyt Group

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About Colruyt Group

Colruyt, a family company from Lembeek in Flemish Brabant, first appeared about 80 years ago. Today, we've grown from a small company into a whole family of companies: Colruyt Group. We offer numerous retail chains, own brands and activities, and we're flourishing in three countries: Belgium, Luxembourg and France.

Colruyt Group consists of over forty brands for individuals and businesses. We're most famous for our food retailing, but we're also active in non-food and fuel, wholesale and foodservice.



Goal of this presentation



Share experience of deployment of IPv6 @ Colruyt Group

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Obtain a feedback on our approach, if any.

The agenda

1. Our main drivers towards migration to IPv6

- 2. Our core principles towards IPv6 migration
- 3. The IPv6 journey of Colruyt, so far
- 4. Our mindset towards the IPv6 migration
- 5. Our realizations, learning and experiences



Our main drivers

Our main drivers behind migration to IPv6



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Remain reachable and continue to reach the internet

To be able to support business projects in the future



Our core principles towards IPv6

Core principles of IPv6 migration at Colruyt

Cost is the most important constraint

Opportunity

No big-bang, take advantage of time and make progress

As much as possible, together with connected projects



The IPv6 journey @ Colruyt

The IPv6 journey @ Colruyt so far ... at a glance





Our mindset towards IPv6 migration

Impacted domains



Our layered approach







Our realizations, learnings and experience

Phased approach in different IPv6 projects

Phase 1: Definition			
- Impact analysis	Phase 2: Realization		
- Check HL	- POC-s / Pilot groups	Phase 3: Introduce	
requirements (WHAT)	- Check connection with other projects	 Rollout phase-wise in different 	
- Estimate HL HOW	- Validation with vendors/OEMs	environments	
	Rollout plan		

Experience sharing of one IPv6 project

- Project: Rollout IPv6 in the non-DC network infrastructure
 - Goal: To make the networks in our shops, offices and distribution centers IPv6 ready



Experience: Impact analysis non-DC project

Phase 1

WAN

Low readiness of providers OR not enough demand for IPv6 from other customers

No issues for L2 WAN links

POC with L3 WAN link planned Q4/2018



IPv6 security features (RAGuard, DHCPv6 snooping, ..) not supported on multiple platforms WiFi

No issues with IPv6 client connectivity

No IPv6 support on current management plaform (Aerohive Hivemanager Classic)

Others

Palo Alto: issues with identity based access if client is dual stack connected

Experience: Impact analysis non-DC project



Experience: Impact analysis non-DC project

Phase 3: POC in PROD sites

- Created new dual stack PC vlan next to existing IPv4 only PC vlan (makes gradual migration possible)
- Testing end to end connectivity with both internal services and external websites
- Current status: waiting for Palo Alto solution

Future planning

- Phase 4: Adapting default LAN design for new locations
- Phase 5: Rollout IPv6 in existing locations

