

Restconf subscription and HTTP push for YANG datastores

draft-voit-netconf-restconf-yang-push-02

NETCONF WG
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NETCONF Event Notification & YANG Push Drafts - Key Elements

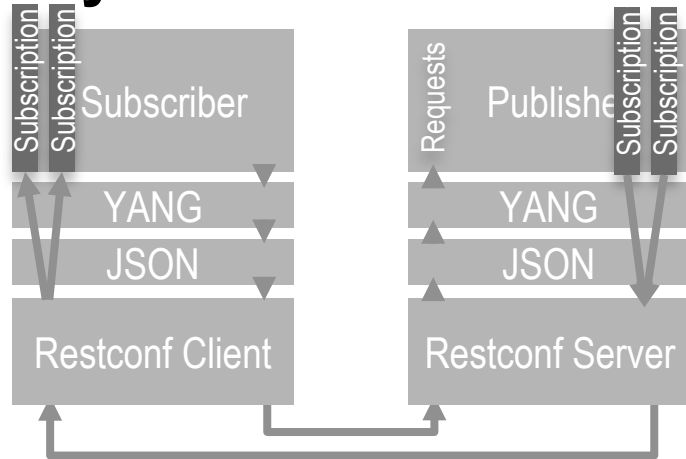
		Event Notifications		YANG Push
		1.0	1.1	
Subscription	Types of Subscription	Dynamic	Dynamic and Static	
	Subscriptions per Session	one	many	
	Negotiation	No	Yes	
	RPCs	create	establish, modify, delete	
	Control Plane Notifications	None	started, suspended, resumed, terminated, modified	
Data Plane Notifications		notification	+subscription-id	push-update, push-change-update
Transport	NETCONF	Yes		
	RESTConf, HTTP, HTTP2	No	Yes	

draft-voit-netconf-restconf-yang-push

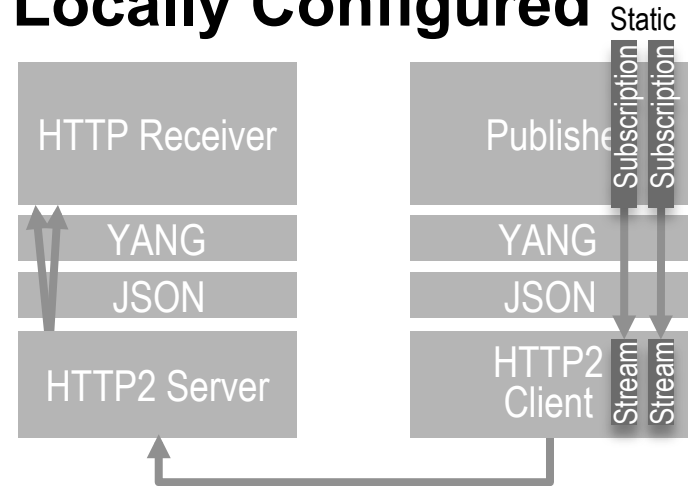
draft-voit-netconf-restconf-yang-push

Transport bindings defined

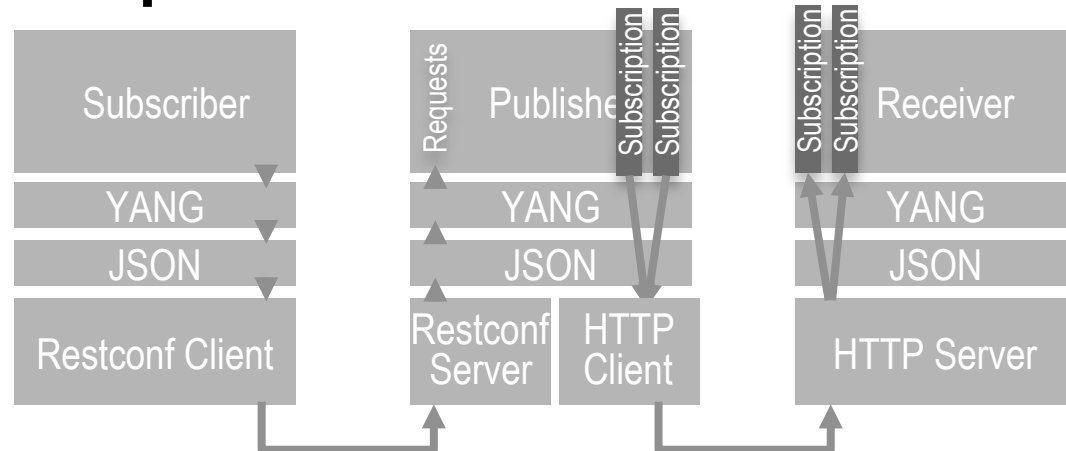
Dynamic RESTCONF



Locally Configured



Separate Subscriber & Receiver



Updates since IETF #94

- One revision update (01→02)
- Sent all non-transport content to draft-ietf-netconf-restconf-yang-push
 - YANG Model augmentations for Subscription prioritization
 - State machine

Next Steps

- Is there is interest in draft-gonzalez-netconf-5277bis?
 - If yes:
 - Modify draft-voit-restconf-yang-push to validate coverage for Event Notifications
 - Result would be RFC5277 style YANG Event Notification and YANG Push subscription and delivery over Restconf, HTTP, HTTP2
 - If no:
 - Continue specifying as YANG Push transport alternative (i.e., recommend not merging new transports into YANG Push draft.)
- Gauge interest in pursuit / adoption?

Thank you!

NETCONF Event Notification & Datastore Push Drafts - Context

complementary

What you need	Consume a stream of Publisher generated messages at the cadence determined by the Publisher	Consume a stream of Publisher generated YANG data updates at a cadence negotiated with the Subscriber
Proposed	RFC5277 draft-gonzalez-netconf-5277bis	draft-ietf-netconf-yang-push draft-voit-netconf-restconf-yang-push