

Lessons Learned

from a Production
Node and Beyond

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Washington Department of Ecology Node

- FRS data flow in production October 2003
- .Net & SQL Server 2000
- Winner of the Microsoft Government Productivity Solution State Award
- Demonstrated Node Configuration available
- Being implemented at Kansas DHE
 - .Net & Oracle RDBMS

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Lessons Learned – Node Considerations

- XML documents are not bandwidth friendly
 - WA Facility ID Full Data Solicitation
 - 100 Mb XML File = 4 Mb compressed file
- RPC, but Doc/Literal compatible
 - Doc/Literal will be a likely future use
 - Ideally, incorporate a Doc/Literal -> RPC translator

Lessons Learned – Node Considerations

- Staging Database and/or Live Connection
 - Staging Database:
 - Replication into Schema format – performance
 - Additional security
 - Live Database Connection:
 - Real-time access to data
 - Capable of data manipulation
 - (i.e., for incoming data)

Node Administration Capabilities

- Flow configuration
- Notification, notification
- Searchable activity logging
- Document management
- Scheduling
- Automatic XML (de)compression

The screenshot displays the NodeAdmin web interface. On the left is a navigation menu with icons for Status, Account, Service, Transaction, Document, Log, and Validation. The main content area is titled 'Node Documents' and contains a table of document entries. Below the table is an 'Upload New Document' section with input fields for 'Document' and 'Dataflow', and 'Cancel' and 'Upload' buttons. At the bottom, there is a 'Document Details' section for the selected document and a 'Transactions' table.

Name	Created On	Type	Data Flow
08d660af-7ec7-487d-acc1-bd8b1d608b71.xml.zip	7/31/2003 4:58 PM	ZIP	FRS
193b7692-49a0-4c2c-9789-0f2179cefcca.xml.zip	7/31/2003 10:33 AM	ZIP	
37d69492-a906-4dcb-8c87-979ec54bf6fc.xml.zip	7/31/2003 9:09 AM	ZIP	
408adcc9-d4f6-474c-bdff-2a7cb84b2d60.xml.zip	7/31/2003 4:57 PM	ZIP	FRS
46e9f4b1-a0cd-43a7-ba72-6c506e83e073.xml.zip	7/31/2003 1:01 PM	ZIP	FRS
53b9eabc-20f4-41ef-97d8-0f565de8fd8d.xml.zip	7/29/2003 4:21 PM	ZIP	
74d2d935-b93a-4261-98bb-b7c1f5f18920.xml.zip	7/31/2003 12:45 PM	ZIP	
807ba08c-953c-4216-8ef4-676c01ed444c.xml.zip	7/31/2003 12:06 PM	ZIP	
9d56ae58-5615-40c7-9153-50347426b709.xml.zip	7/31/2003 9:11 AM	ZIP	
cdx.wsdl	7/31/2003 10:33 AM	XML	test
dc392613-2373-46fc-b422-b6ed184dbbd8.xml.zip	7/31/2003 12:44 PM	ZIP	
name2	7/31/2003 1:34 PM	BIN	FRS
name2	8/4/2003 9:57 AM	BIN	FRS
Notif.xml	7/31/2003 1:34 PM	XML	FRS
Notif.xml	8/4/2003 9:57 AM	XML	FRS
soapclient.gif	7/31/2003 10:33 AM	BIN	test

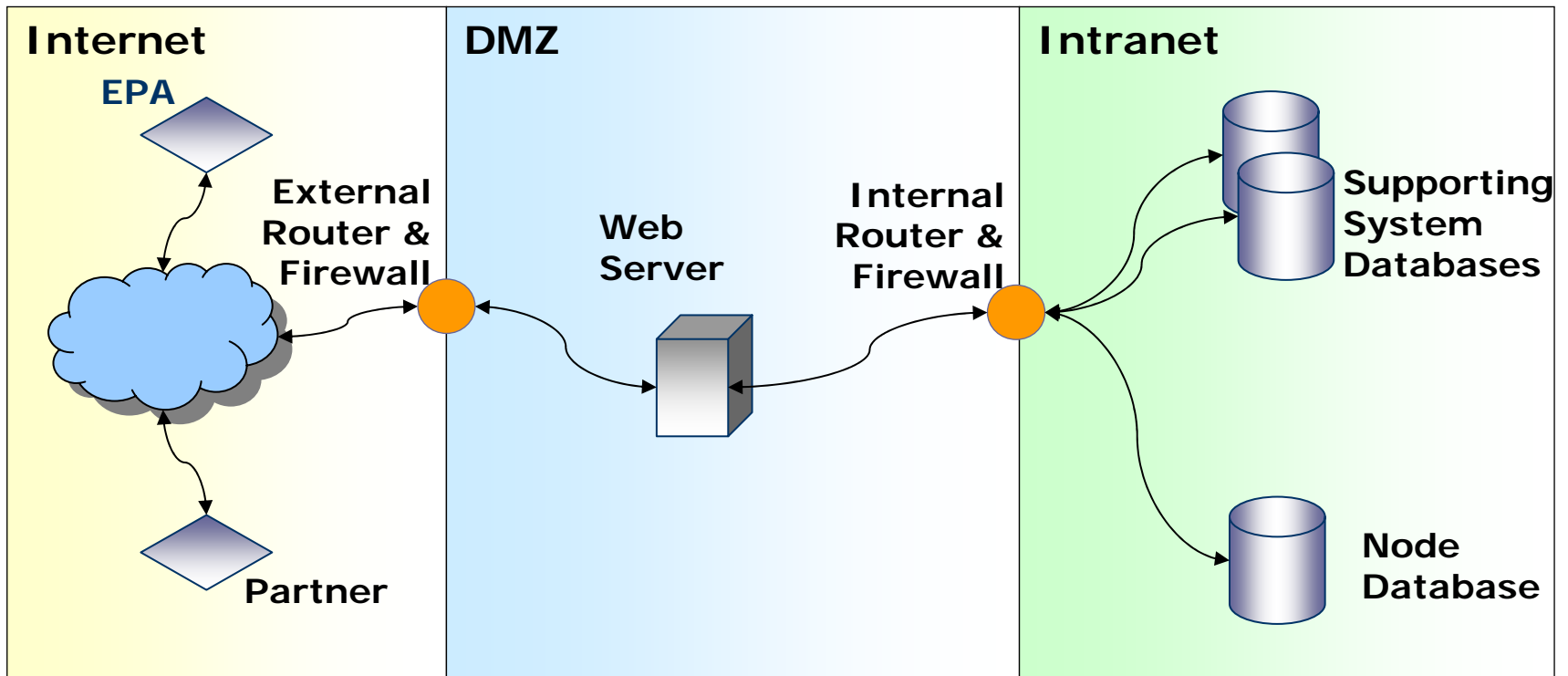
User	Dataflow	Created On	Status
cdx		7/31/2003	Processed

A Consideration from Beyond your Node

- Employ a 'Service Based Approach' to new systems
 - Non-node data management systems may have future flows
 - Consider web services to broker database interaction

HTTP Proxy vs. DMZ Architecture

DMZ Topology



HTTP Proxy vs. DMZ Architecture

Reverse Proxy Topology

