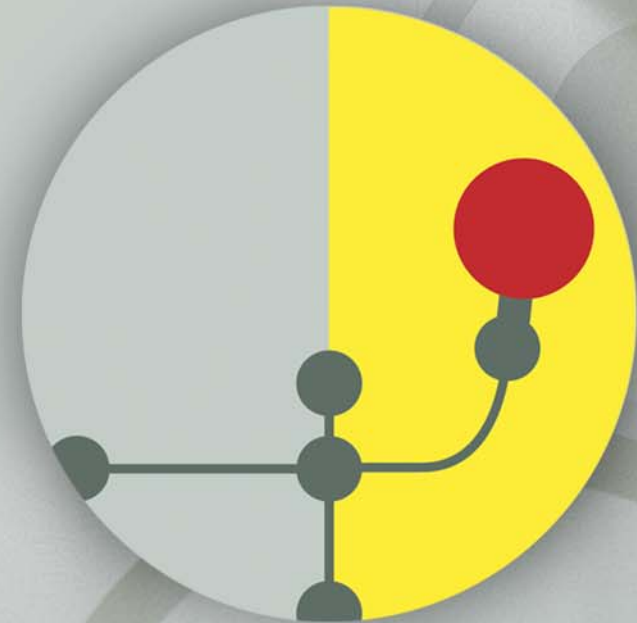


# EZ-FLOW Overview

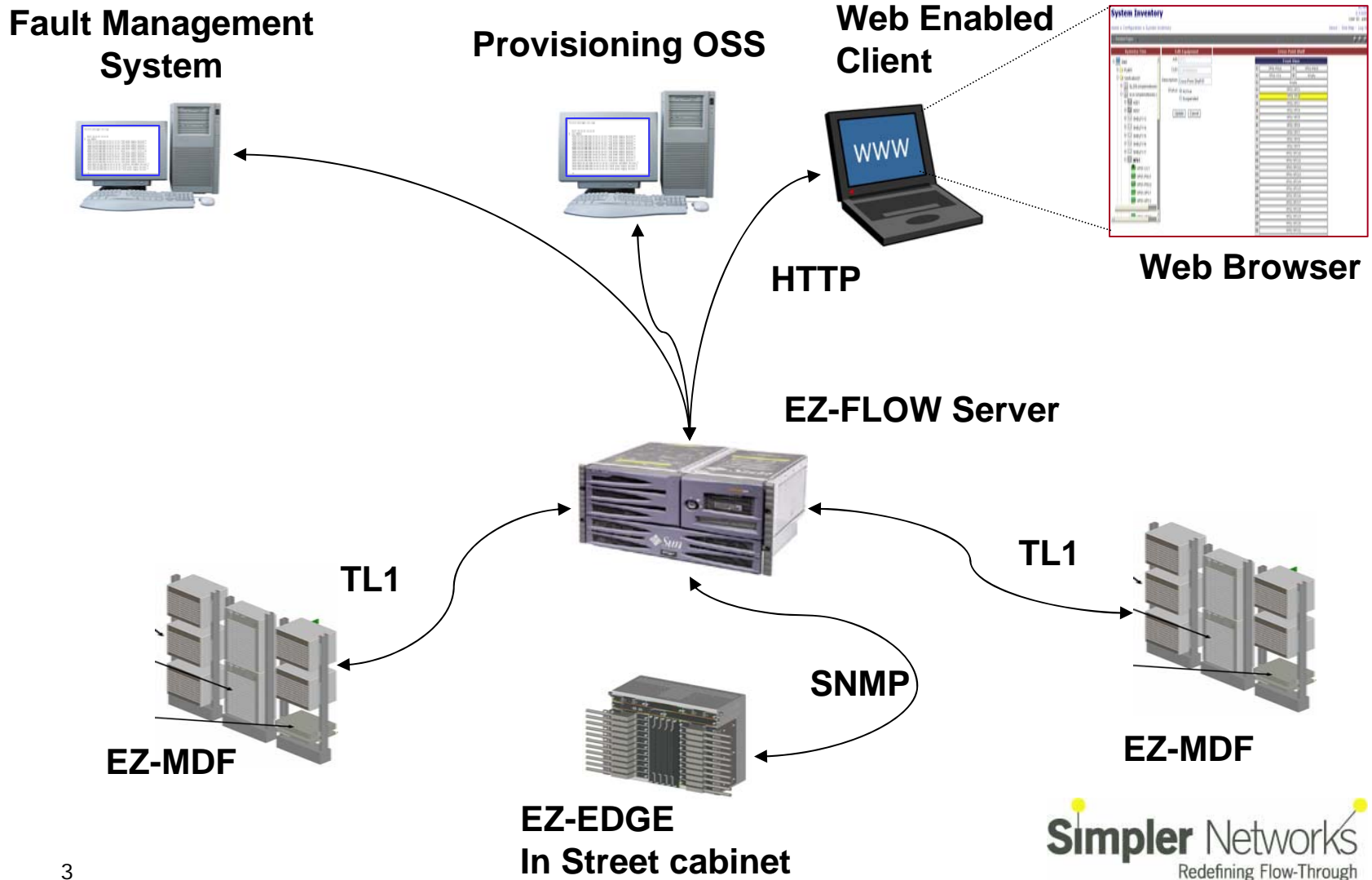


# Problem Statement

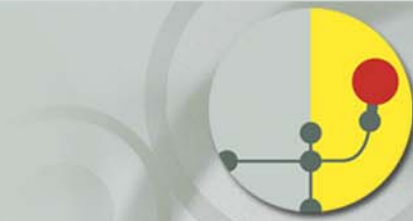


- Historically, carriers have seen the cost of manually performing cross-connects as insignificant since they were infrequent and small in number
- Increased volume and frequency of cross-connects required for enhanced services such as broadband DSL, high speed Internet and as well as increased competition and deregulation now requires that these services be provisioned reliably and quickly
- Automating the manual work of provisioning and maintenance of voice, DSL and other enhanced services to customers is an opportunity to significantly reduce operating cost, increase efficiency and reduce churn

# Where the EZ-FLOW fits in the network

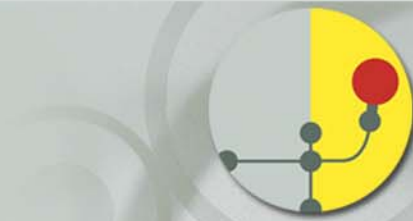


# EZ-FLOW Key Features



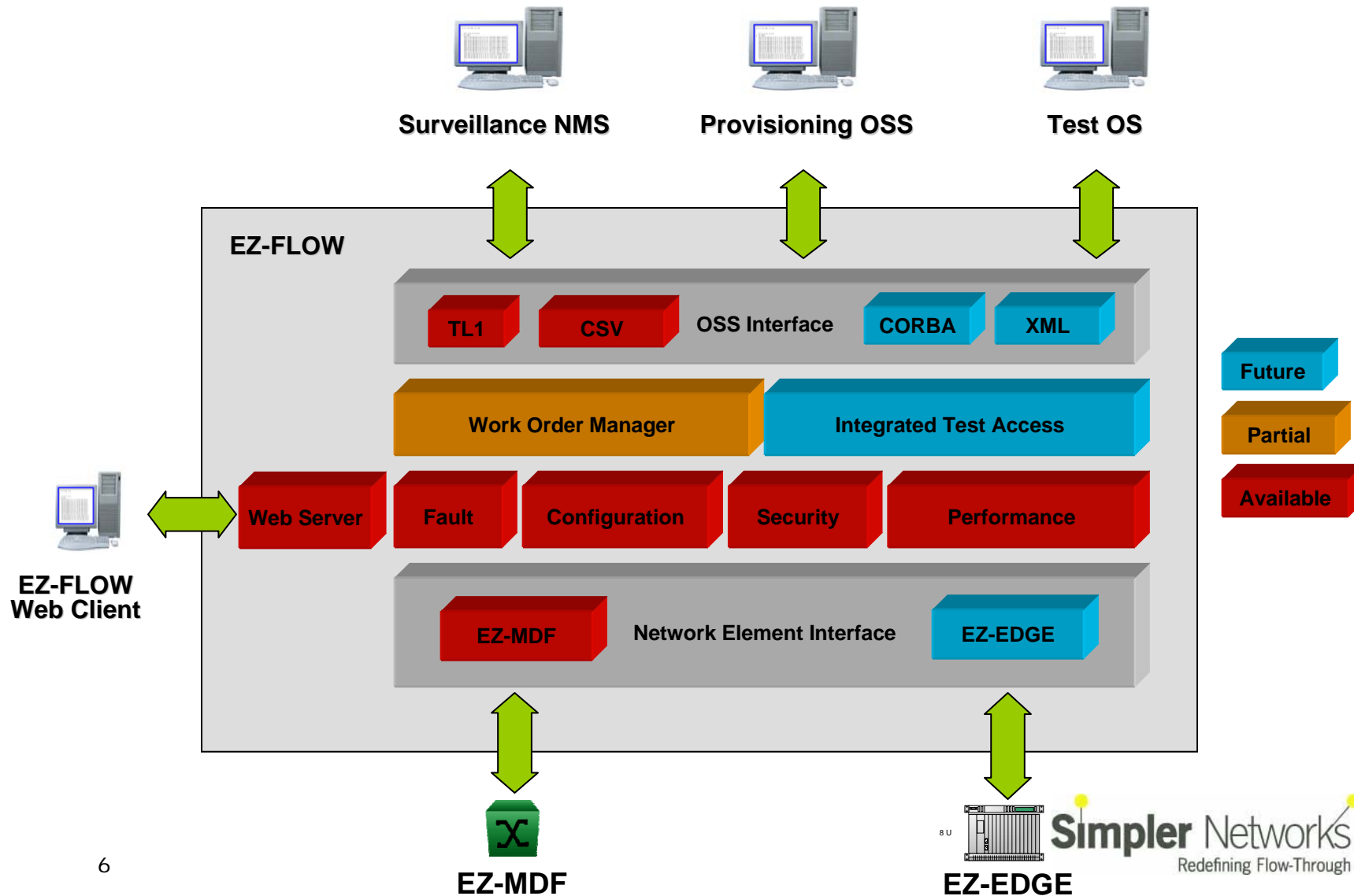
- Real-time integrated management of all managed EZ-MDFs
- Easy to use point and click Web-enabled GUI
- Commissioning Tools
  - Batch Alias Provisioning allows to import and export port assignment from file
  - Batch Cross-Connect Provisioning to import and export cross-connects from file
  - Jumper validation allows to reconcile records of connections
- Full FCAPS support
  - Fault
    - Centralized Alarm Management
    - Consolidated management of NE's Test Access feature
  - Configuration
    - Consolidated management of System Inventory through NE, shelf and card views
    - Consolidated provisioning of equipment & cross-connects
    - Consolidated management of NE database Backup schedules
    - Consolidated management of NE database Restore
    - Consolidated management of NE Software Management
  - Administration
    - Process manager monitors EMS restarts and reboots and generates alarm to administrator in case of abnormal EMS behavior
    - Database backups & restore management allows to manage backup schedule and manual database restore
    - Software management feature allows to manage EZ-FLOW software versions

## EZ-FLOW Key Features (cont'd)

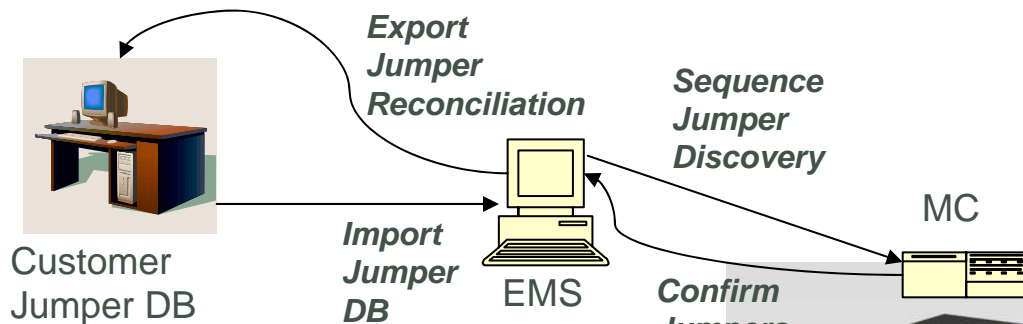
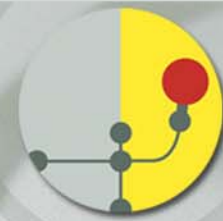


- Performance
  - Centralized data gathering of cross-connects operations allows real-time visualization of cross-connects activity over time
  - Centralized data gathering of equipment inventory allows real-time visualization of network size, inventory and capacity
- Security
  - Centralized Security Management allows management of groups, accounts and privileges for entire managed network or groups of NEs.
  - Centralized Audit Log performs logging of operations on all managed NEs
- Work Order Manager
  - Enables automated flow-through provisioning by accepting work orders from Provisioning OSSs
  - Provides the ability to manually submit work orders
  - Provides ability to visualize and manage submitted work orders
  - Provides a list of predefined work order for most used services
- OSS Interfaces
  - TL1 enables integration with TL1-based OSSs such as Telcordia`s NMA
  - CSV
  - XML
  - CORBA

# EZ-FLOW Architecture



# Features – Jumper validation

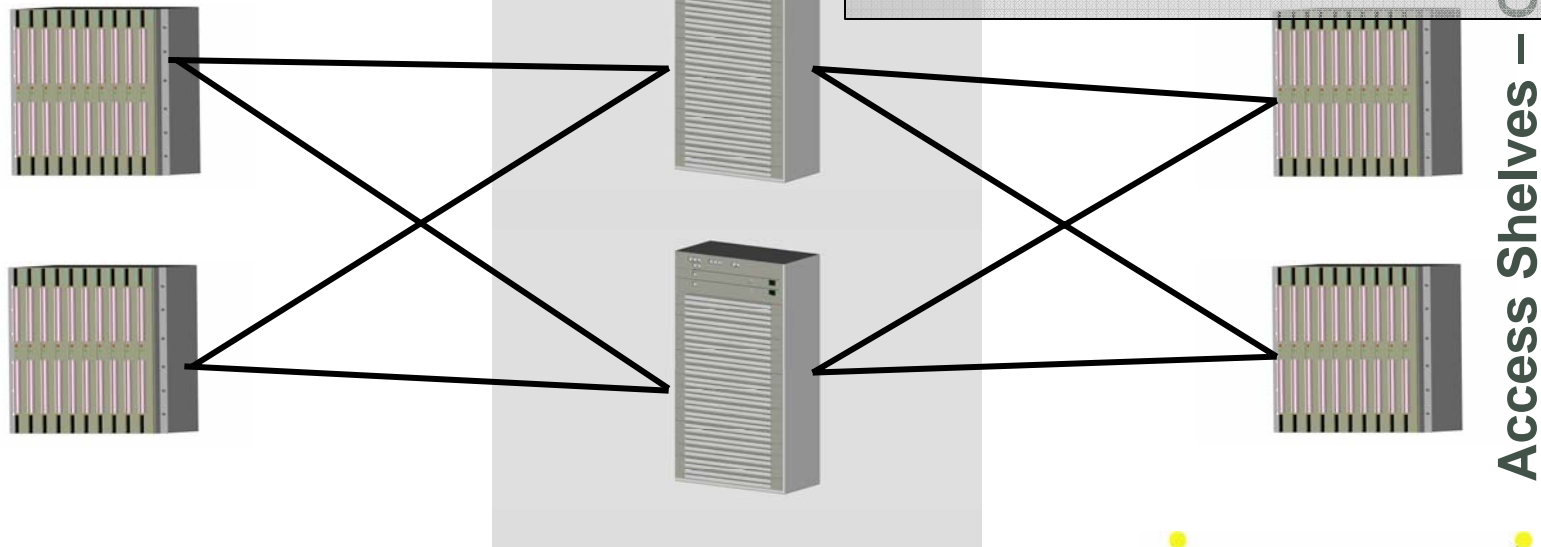


Allow operators to validate jumper database with physical cross-connect frame

Allows operators to identify unused capacity as jumper databases are often inaccurate

Identifies which jumpers are wrong (10% - 30% inaccurate records)

Cuts down on cutover effort



**Xpoint Shelves**

# Features – Metallic Test Access



Displays Test Access ports configuration

## Metallic Test Access

Home > Configuration > Metallic Test Access

EZ-FLOW

User Name: admin

[Documentation](#) · [About](#) · [Site Map](#) · [Log Out](#)

Related Pages ▾

System Tree

Current Status of All Test Access Ports for NE								
Test Port	Current Mode	Circuit ID	From Alias	From AID	To Alias	To AID	Remaining Duration	
1	Released							
2	Released							
3	Released							
4	Released							
5	Released							
6	Released							
7	Released							
8	Released							

Release All

Allows remote TAC setup to enable remote loop testing

## Test Access Port (TAP) Management

Test Port: ▾ Mode: Release ▾ Apply

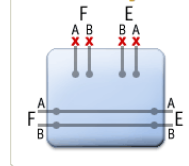
### Test Access Duration

Indefinite  
 Timeout  
Duration:  (hh:mm)

### Configuration Code

2WA

### Selected Configuration



### Cross-Connect Query

By AID  By Alias

AID:  Search Reset

From AID:

To AID:

# Features – Work Order Manager



Allows to create or edit work orders including wire center, priority, assignee, scheduled date.

**Work Order Properties**

Home > Configuration > Work Order Properties

EZ-EMS 1.5.02  
User Name: admin  
About · Site Map · Log Out

Select Selected Steps Related Pages

**New Work Order**

Work Order ID : -  
SID : vxems7

Wire Center / CLLI  
Predecessor

Priority Normal  
Assigned To Johnny

Scheduled For (yyyy-mm-dd) 2006-03-15  
(HH:mm:ss) 15:00:00  
Due Date -  
Description

Add Cancel

**New Step**

Primitive Create Cross-Connect  
Action Execute

Alias1  
Alias2

Description  
Circuit ID

Test Access Port  
Configuration Code 2 wire on A pair (2WA)

Enable Automatic Disconnect Yes No  
Timeout Duration (HH:mm) 00:15  
Impedance High None

Add Step Cancel

	State	Description	Primitive	Action	Parameters	Start	Last Transition	Result	Created	Created By	Created Via	Modified	Modified By	Modified Via
<input type="checkbox"/>	X ↓	Initial Add ADSL service to client	Create Cross-Connect	Execute					Oct 31, 2005 3:24:13 PM	admin	Web	Oct 31, 2005 3:24:13 PM	admin	Web
<input type="checkbox"/>	X ↑↑	Initial Start test access	Connect Loop Around	Execute					Oct 31, 2005 3:24:15 PM	admin	Web	Oct 31, 2005 3:24:15 PM	admin	Web
<input type="checkbox"/>	X ↑	Initial Monitor the test access	Connect Monitor	Execute					Oct 31, 2005 3:24:15 PM	admin	Web	Oct 31, 2005 3:24:15 PM	admin	Web

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Work orders may contain up to 32 steps. Available steps are:

- Create Cross Connect
- Modify Cross-Connect
- Delete Cross Connect
- Connect Loop Around Access Metallic
- Connect Test Access Metallic
- Change Split Full Metallic
- Connect Monitor
- Disconnect Test Access Metallic
- Launch of RTU specific script to perform measurements to automate testing of line at provisioning

# Key Benefits



Allows real-time consolidated view of AMDF network



Reduce Operating Expenses

Allows remote monitoring and troubleshooting of network problems



Improve Customer Satisfaction and Retention

Flow-through provisioning reduces need for manual intervention



Accelerates Revenue Recognition

Point and click GUI simplifies operations and reduces training



Reduces Network Downtime

Eliminate human error by automating time-consuming, repetitive operations

Ensure that services are provisioned quickly and reliably