



CONNX SOLUTIONS For OpenVMS

Harpal Gill, VP Global Alliances
CONNX Group - Software AG



AGENDA FOR TODAY'S PRESENTATION

- Overview
- CONNX Products
- CONNX Data Access for RMS, Rdb, DBMS & more
- CONNX Data Virtualization for RMS, Rdb, DBMS
- CONNX Data Replication for RMS, Rdb, DBMS
- Q&A

WHO IS CONNX

Founded in 1989

Started to allow access to
non-accessible data
sources



SEATTLE, WA

150+ DBs/Platforms
SUPPORTED

DATA ACCESS

REPLICATION + MIGRATION
INTEGRATION + VIRTUALIZATION



3200+
CUSTOMERS & USERS
WORLDWIDE

Partner of Software
AG since

2004

CO-DEVELOPED

ADABAS
SQL GATEWAY &

EVENT REPLICATOR
FOR ADABAS ON LUW

SOLUTIONS

Acquired by Software AG
in 2016 for Data Integration



OPENVMS AND CONNX OVERVIEW

- CONNX has worked with over 7700 OpenVMS Customers over the past 20 Years
- Today we have approximately 3000 installations
- With over 900 installations on maintenance
- Examples of Current RMS Customers:
- ADL Systems, Aetna, GE, Icicle Seafood's, Karmak, Kids Peace, Miller Coors, Toys R US (Canada), Travel Centers,
- Over 120 Higher Educational Institutions like MSU,
- A large number of State and Local Governments, Government of British Columbia, State of HI, St of CT, St of New Jersey

CONNEX SOLUTIONS CUSTOMERS



WORLDWIDE PARTNERS



GENERIX – CONNX PARTNERSHIP:

- Partnership: Generix our European partner for over 23 years.
- They have always had a strong working relationship with OpenVMS customers requiring application modernization and integration.
- Generix have worked with customers using OpenVMS since the days of DEC, Compaq, HP, HPE and now VSI.
-
- They continue to Work with customers who have decided to stay with OpenVMS to enhance and integrate their applications to achieve additional business benefits.
- (In for the long haul)

EXTEND OpenVMS WITH DATA ACCESS, VIRTUALIZATION, REPLICATION, AND MOBILE

DataSync

Near real-time, low-latency,
Change Data Capture

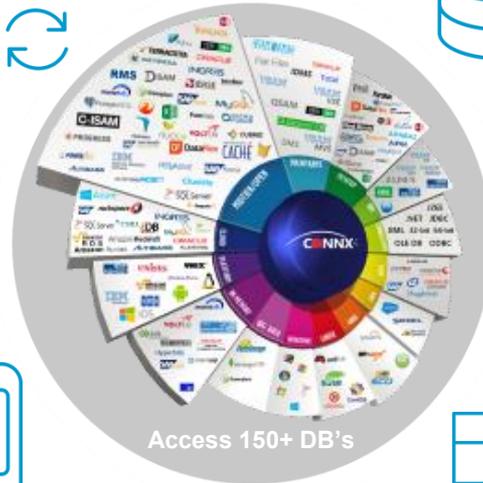


InstantdbSync

Real-time Replication,
Synchronization & CDC

KPiSync

Visualize key business
metrics on any device in
real-time



InfoNaut CONNX Add-on Pro for Excel

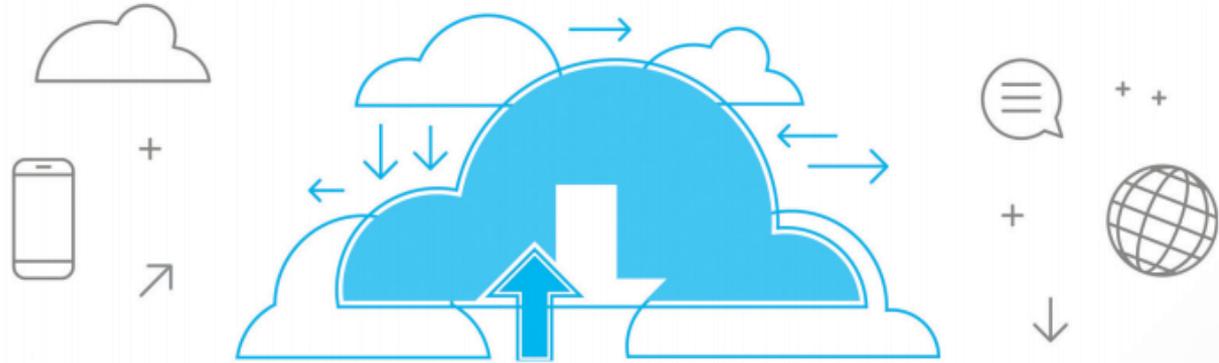
Simple reporting to all
data sources with Excel



CONN DB ADAPTER

Simplified SQL data access to more than 150 data sources:

- Adbas
- Amazon®
- Azure®
- C-ISAM®
- DataFlex®
- Hadoop®
- IBM DB2®
- IMS™
- Informix®
- Oracle®
- Rdb
- RMS
- SAP HANA®
- SQL Server®
- VSAM™
- And more

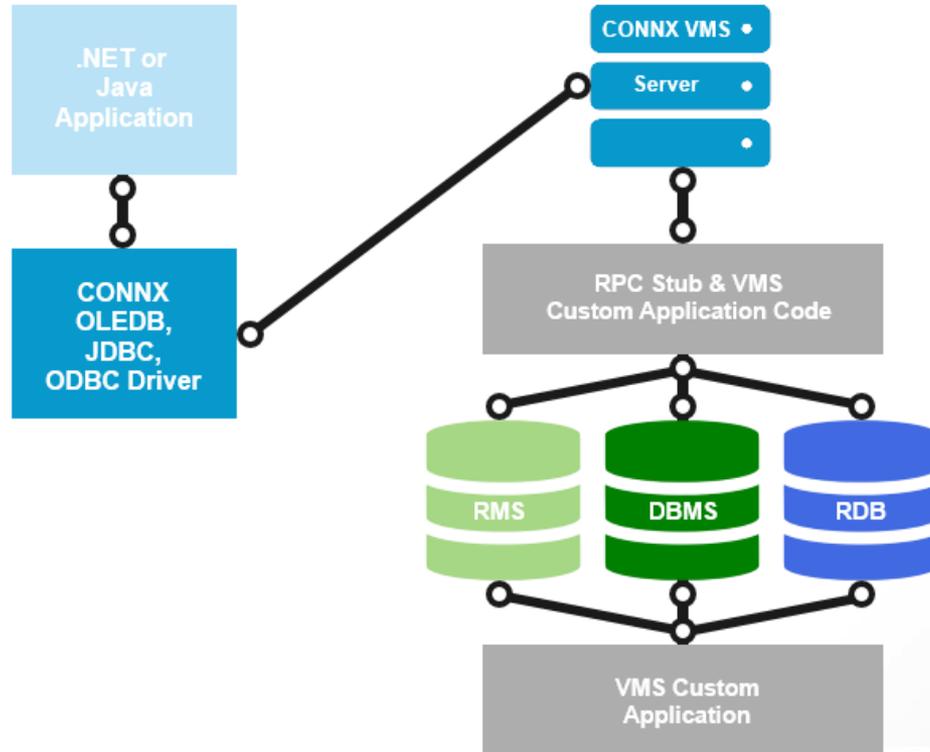


Unlock enterprise data wherever it resides, and use it in real time

- Make better decisions by leveraging all of your data
- Respond faster with access to real-time data
- Avoid costs of data replication and consolidation
- Experience fewer data errors
- Put less stress on source systems workload

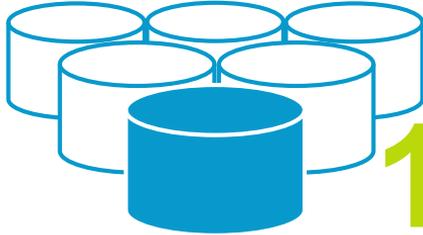
CONNX RPC SOLUTION

Reuse Existing OpenVMS Business Logic



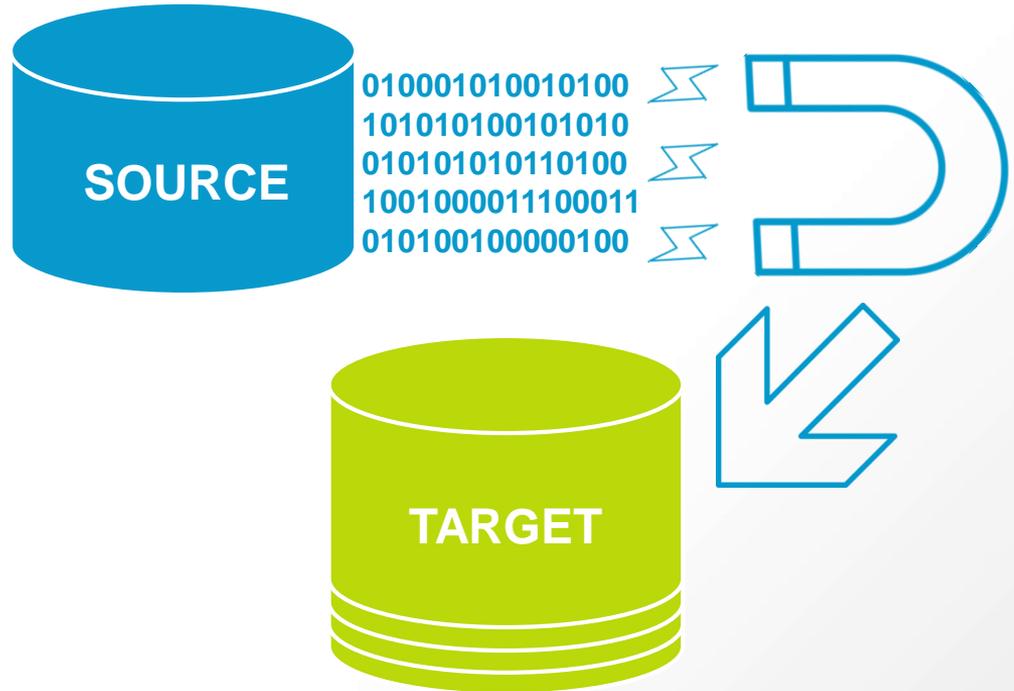
DATASYNC

Change Data Capture
And Replication

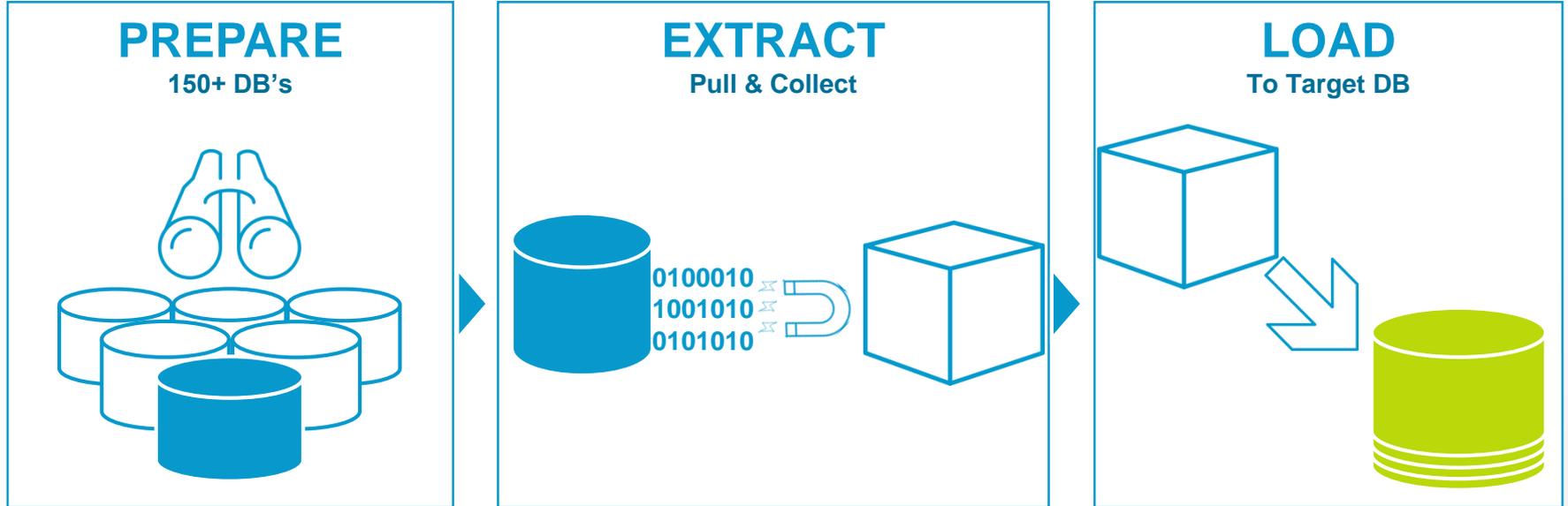


150+

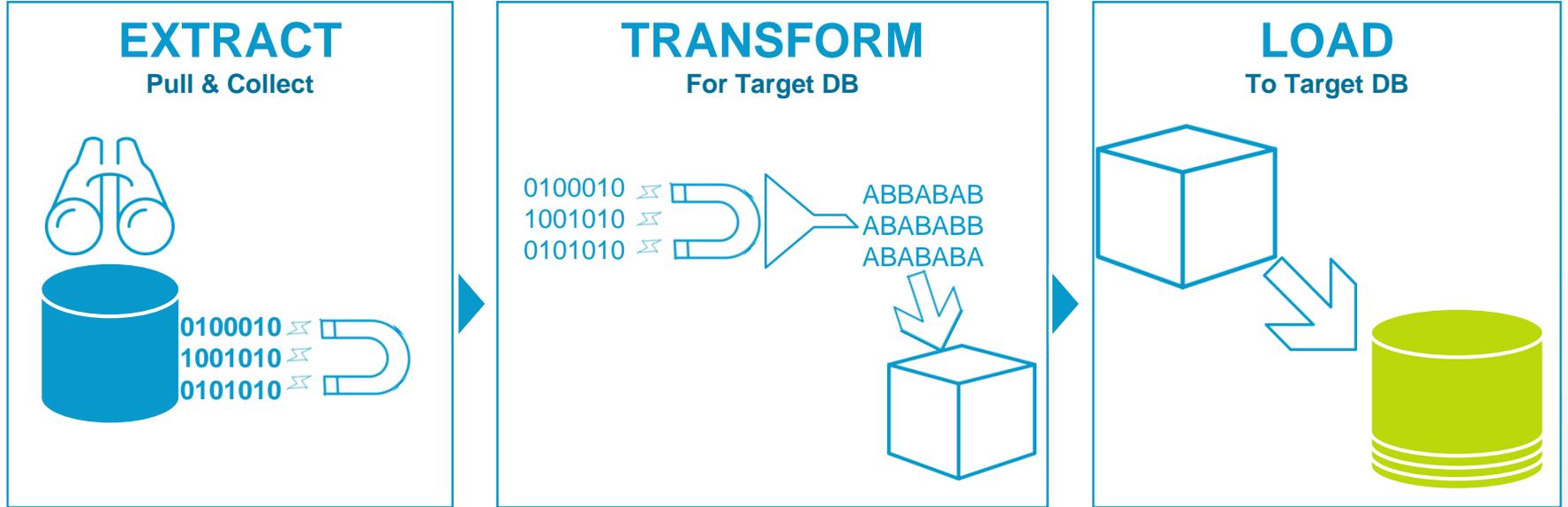
Near Real-Time
ETL



DATASYNC



DATASYNC TRANSFORMATION



ADD-ON FOR SSIS



1

Configure SSIS packages that run the queries to retrieve the change data



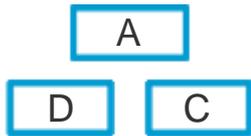
2

Determine how often to query for asynchronous capture of source data



3

Retrieve the changed data from the changed tables



4

The file is split into inserts, updates, and deletes for processing



5

The changes are applied to the destination SQL Server Table

ADD-ON PRO FOR EXCEL

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW **CONNX** TEAM

Use Existing Connection Import External Data Create New Connection Wizard CONNX Data Pane Edit External Data

CONNX allows a connection to be made to multiple databases on a variety of platforms.
 Import data into excel sheet by creating or using a CONNX Excel data source.
 Edit data by pressing CONNX Data Pane button and then use a single table CONNX Excel data source

Procedures

A1 ✕ ✓ fx

A B C D E F G H I J

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12

- View/extract data from 150+ supported databases
- Excel capabilities read and write to source data
- Connect/create joins between tables from different data sources
- 2-clicks away from streamlined access wherever your data resides

CONNX For Excel

Edit Data Import Data

Use Table Connection
Create Table Connection

CONNX_Address
CONNX_Customer

INFONAUT

Build & Manage Queries & Reports



File Formats



XML®, Excel,
Microsoft Query®,
HTML, ASP, CSV,
SQL and TXT.

SQL Statement Builder

InfoNaut Professional - The CONNX® Query Tool : DSN=CONNX85SAMPLES32

File View Connection Options Help

Max Rows

Recent Connections DSN=CONNX85SAMPLES32;UID=infonautuser;NODE=APPLICATION=RMS;

Recent Queries select * from customers_rms

select * from customers_rms

Drag a column header here to group by that column

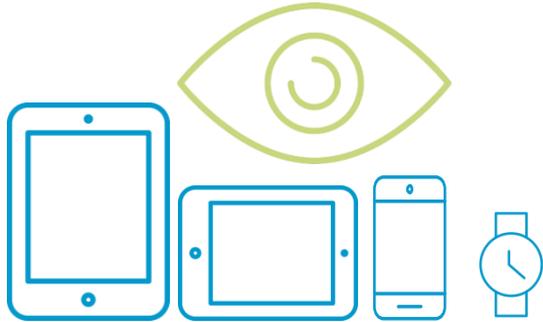
| | customerid | customername | customeraddress | customercity | customerstate | customerz |
|---|------------|---------------------------------|-------------------|---------------|---------------|-----------|
| 1 | ALWAO | Always Open Quick Mart | 77 Overpass Ave. | Provo | UT | 84604 |
| 2 | ANDRC | Andre's Continental Food Market | P.O. Box 209 | Bellingham | WA | 98226 |
| 3 | ANTHB | Anthony's Beer and Ale | 33 Neptune Circle | Clifton Forge | WA | 24422 |
| 4 | BABUJ | Babu Ji's Exports | Box 29938 | London | | WX1 5LT |
| 5 | BERGS | Bergstad's Scandinavian Grocery | 41 S. Marlon St. | Seattle | WA | 98104 |
| 6 | BLUEL | Blue Lake Deli & Grocery | 210 Main St. | Port Townsend | WA | 98368 |
| 7 | BLUMG | Blum's Goods | 143 Blum Rd. | London | | NW1 2BP |

Record: 1 of 66

Records/Sec : 98 Time : .67s

KPISYNC

Visualize Key Metrics



On Any Device

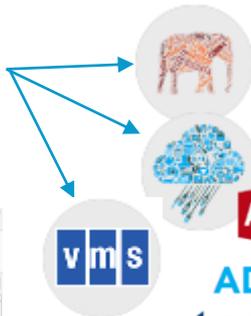


EXTEND OpenVMS WITH DATA VIRTUALIZATION TO BIG DATA AND CLOUD DATA SOURCES

Homewood Community Partnership Initiative
COMMERCIAL/RETAIL DEVELOPMENT

Employees/Sales by Sector
 Select Sales / Employees
 Number of Employees
 Building Permits Above \$10k Select Year: 2014
 Commercial Square Footage

| CUSTOMERID | CUSTOMERNAME | CUSTOMERADDRESS | CUSTOMERCITY | CUSTOMERSTATE | CUSTOMERZIP | CUSTOMERCOUNTRY |
|------------|--------------|---------------------------------|----------------|---------------|-------------|-----------------|
| 1 | ANDRC | Andrew's Commercial Food Market | Baltimore | MD | 21202 | USA |
| 2 | ANDRC | Andrew's Commercial Food Market | Baltimore | MD | 21202 | USA |
| 3 | ANRNE | Anthony's Meat and Produce | Orlando | FL | 32803 | USA |
| 4 | BABUJ | Babu Ji's Exports | London | UK | W1X 5LT | UK |
| 5 | BIBUS | Birgitta's Scandinavian Grocery | Seattle | WA | 98104 | USA |
| 6 | BLIEL | Blue Lake Deli & Grocery | Port Townsend | WA | 98158 | USA |
| 7 | BLUMG | Blum's Goods | London | UK | NW1 2BP | UK |
| 8 | BOTTM | Bottum's Organic Markets | Transvaal | NC | 28686 | USA |
| 9 | BSEBV | B's Beverages | Transvaal | NC | 28686 | USA |
| 10 | COSSH | Comestore Ltd | London | UK | SW1 4JH | UK |
| 11 | DODGD | Dodds Deli | London | UK | SE1 4JH | UK |
| 12 | EMPT | Empire Trading | London | UK | SW1 4JH | UK |
| 13 | EMPT | Empire Trading | London | UK | SW1 4JH | UK |
| 14 | FFZDG | Fitzgerald's Deli and | Baltimore | MD | 21202 | USA |
| 15 | FOODI | Foodies | Valley Village | VA | 24422 | USA |
| 16 | FRASD | Fraser Distributors | London | UK | W1P 1BP | UK |
| 17 | FRASD | Fraser Distributors | London | UK | W1P 1BP | UK |
| 18 | FLJJA | Fajana's Asian | Phoenix | AZ | 85006 | USA |
| 19 | GARCA | Garca's All Day Food | Adulm | VA | 99001 | USA |
| 20 | GARCA | Garca's All Day Food | Adulm | VA | 99001 | USA |



CONNX ASSISTED EVALUATION PROGRAM

- We are very confident on the ability of CONNX and are happy to discuss an evaluation with you.
- Prove how you can use CONNX to enhance investments in your existing applications and enterprise data on OpenVMS to keep your systems evolving to meet your current and future needs.
- Contact Anthony Lightfoot or Leonard Klejnow at Generix Limited
 - Anthony@Generix.ltd.uk
 - Len@Generix.ltd.uk
 - WWW.CONNX-NET.COM
 - +44 (0) 1924 500151



DB ADAPTER ARCHITECTURE

