

# CONNX SOLUTIONS For OpenVMS

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CONNX Group – Software AG

# AGENDA FOR TODAYS 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
- Video Demo
- 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





# CONNX SOLUTIONS CUSTOMERS



## 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:
  - European: Capita IRG, Carphone Warehouse, Societe Generale, Bombardier Aerospace, ALD Automotive, Tilbury Cement, Dierre Spa, Tata Steel, Experian, RBS, Orange Telco, Commerzbank
  - NA: ADL Syst., Aetna, GE, Miller Coors, 120+ Educational Institutions
  - A large number of State and Local Governments

# OPENVMS AND CONNX CASE STUDY

	India Rail	Commerzbank AG
		
<b>Customer snapshot</b>	India Railways is the 4 <sup>th</sup> largest rail system in the world, with over 121k km of track, and over 1.3 Million employees making them the 8 <sup>th</sup> largest employer in the world. In 2018 they had over 8.3 Billion travelers.	Commerzbank AG is the second largest German bank operating as a universal bank, headquartered in Frankfurt, Germany
<b>Customer Motivation &amp; Pains</b>	The Railways uses an OpenVMS system to support their 8.6 Billion annual transactions. In order to drive their Analytics and BI dashboards, they partnered with Oracle and Software AG's CONNX Group to move data from the 5 data centers to a central data warehouse.	The customer is leveraging a custom banking application built on an OpenVMS Platform and running on the RMS db. The solution spans over 250 servers in 3 data centers across the globe. The customer requires the ability to have a variety of web applications and Analytics solutions access the core banking application.
<b>Connected Data Sources</b>	Data Centers are running RMS dB's on the OpenVMS platform and the Data Warehouse was in Oracle.	The Three Data Centers are running RMS dB's on the OpenVMS platform. Users connect via Web portals or Analytic Applications to consume data.
<b>Solution</b>	CONNX for RMS and N-Tiers which provided unlimited connections for ODI to access the RMS Data and move data from the OpenVMS platforms to the centrally located Data Center.	CONNX for RMS and N-Tiers provide web users the ability to query the OpenVMS Application to get specific information and corporate leverages various analytic application to view consumers info and various business processes.



# WORLDWIDE PARTNERS



# CONNX dB SUPPORT

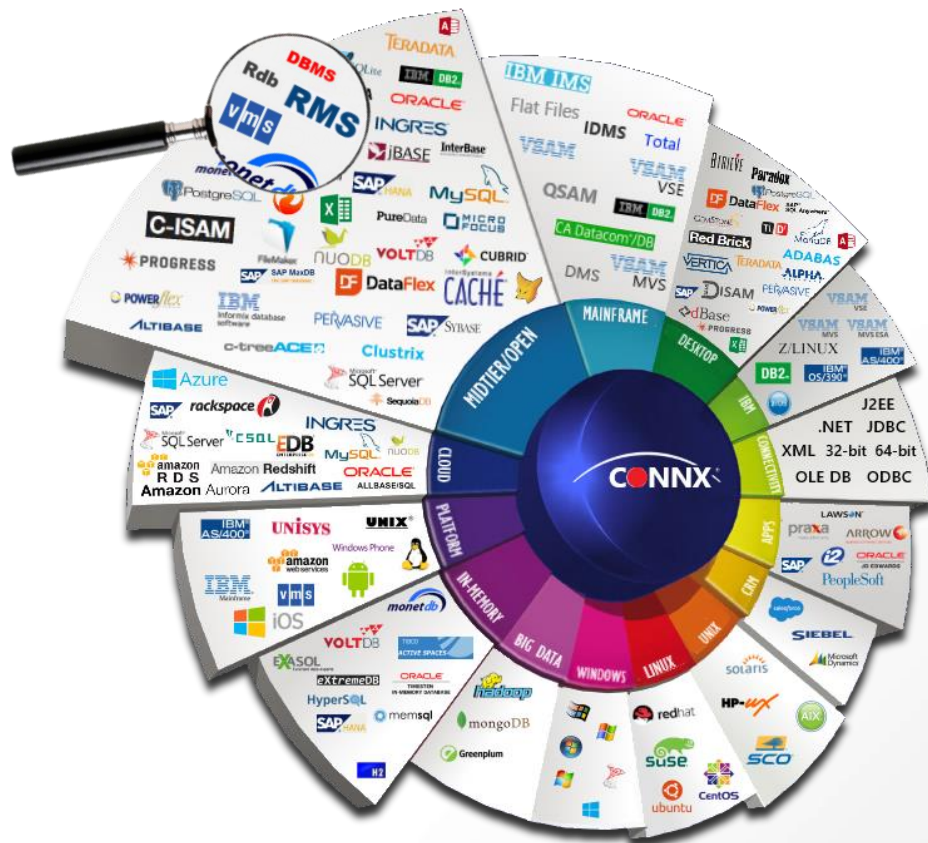
☐ MAINFRAME

☐ DESKTOP/CLOUD

☐ MIDTHIER/OPEN

☐ IN-MEMORY/BIG DATA

☐ OS/CRM/APPS

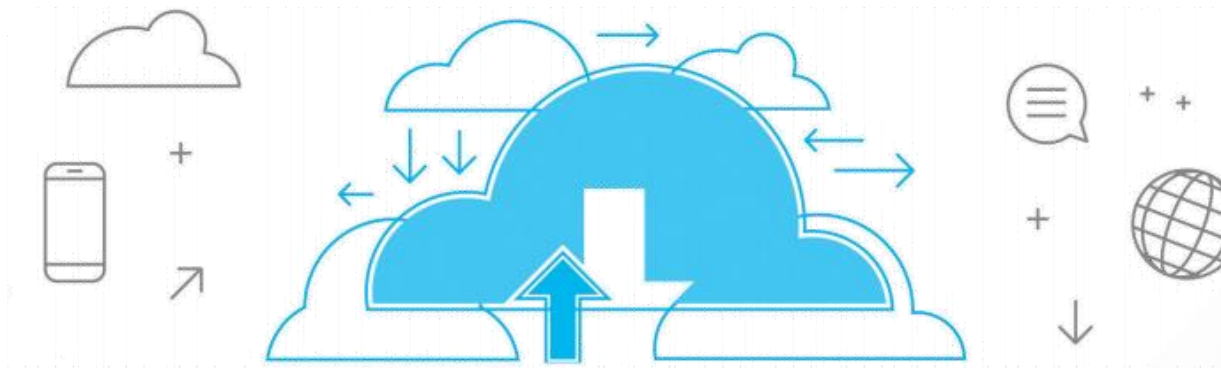




# CONNX DB ADAPTER

## Simplified SQL data access to more than 150 data sources:

- Adabas
- Amazon®
- Azure®
- C-ISAM®
- DataFlex®
- Hadoop®
- IBM DB2®
- Oracle®
- DBMS
- Rdb
- RMS
- 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

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

## DataSync

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

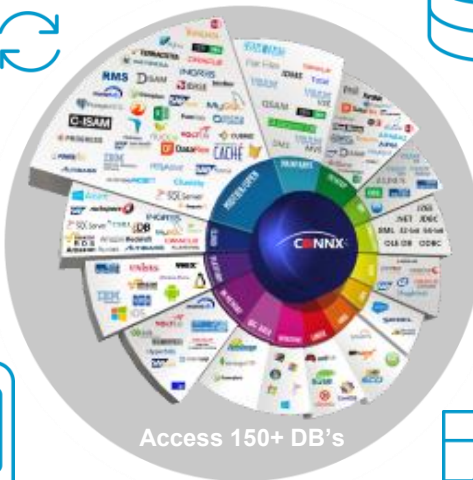


## InstantdbSync

Real-time Replication,  
Synchronization & CDC

## KPiSync

Visualize key business  
metrics on any device in  
real-time



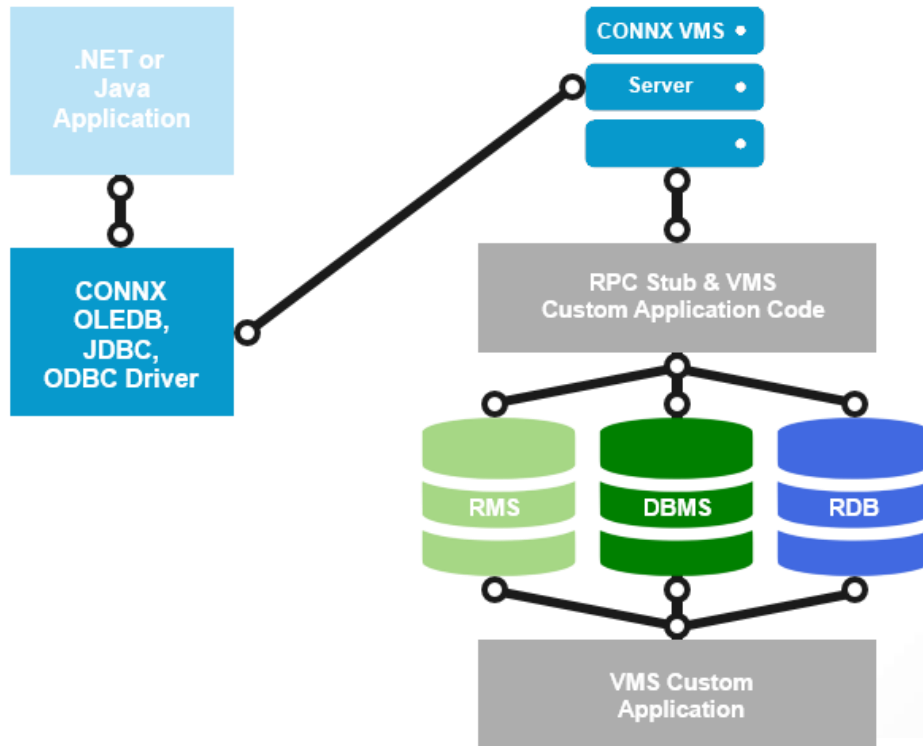
## InfoNaut CONNX Add-on Pro for Excel

Simple reporting to all  
data sources with Excel



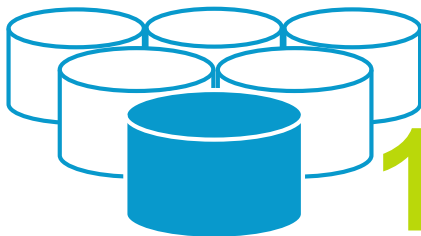
# CONNX RPC SOLUTION

## Reuse Existing OpenVMS Business Logic



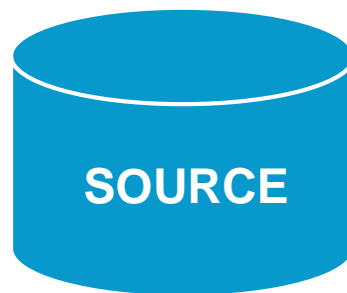
# DATASYNC

Change Data Capture  
And Replication

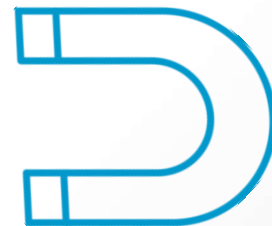


**150+**

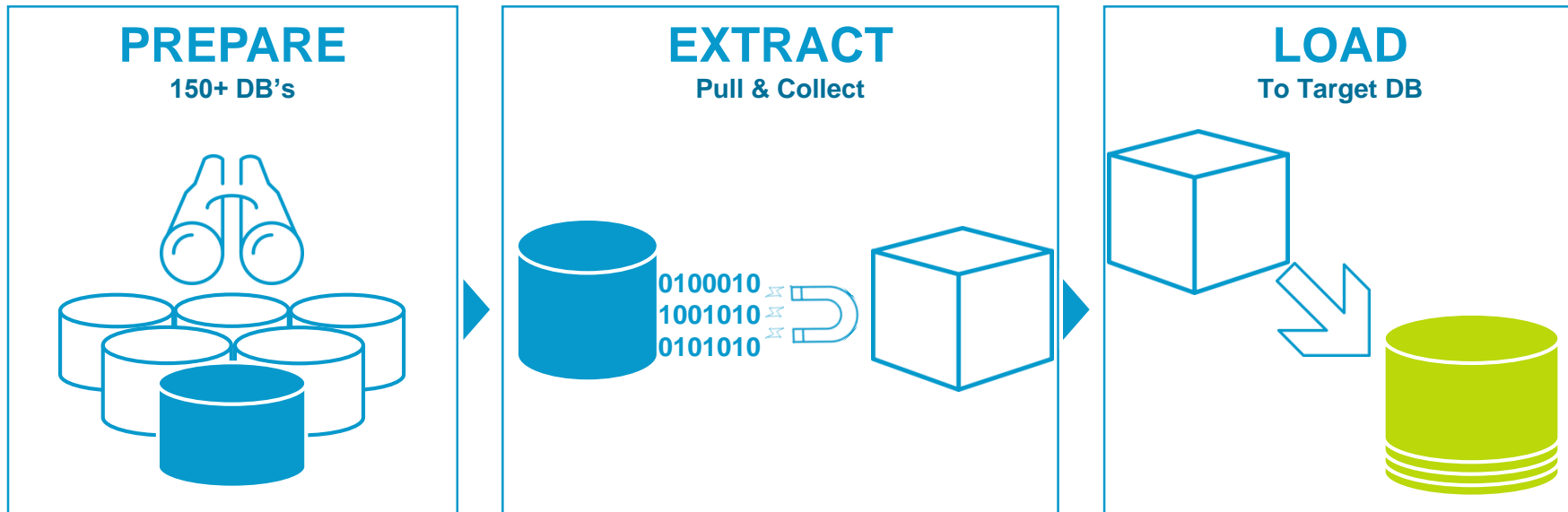
**Near Real-Time  
ETL**



010001010010100  
101010100101010  
010101010110100  
1001000011100011  
010100100000100

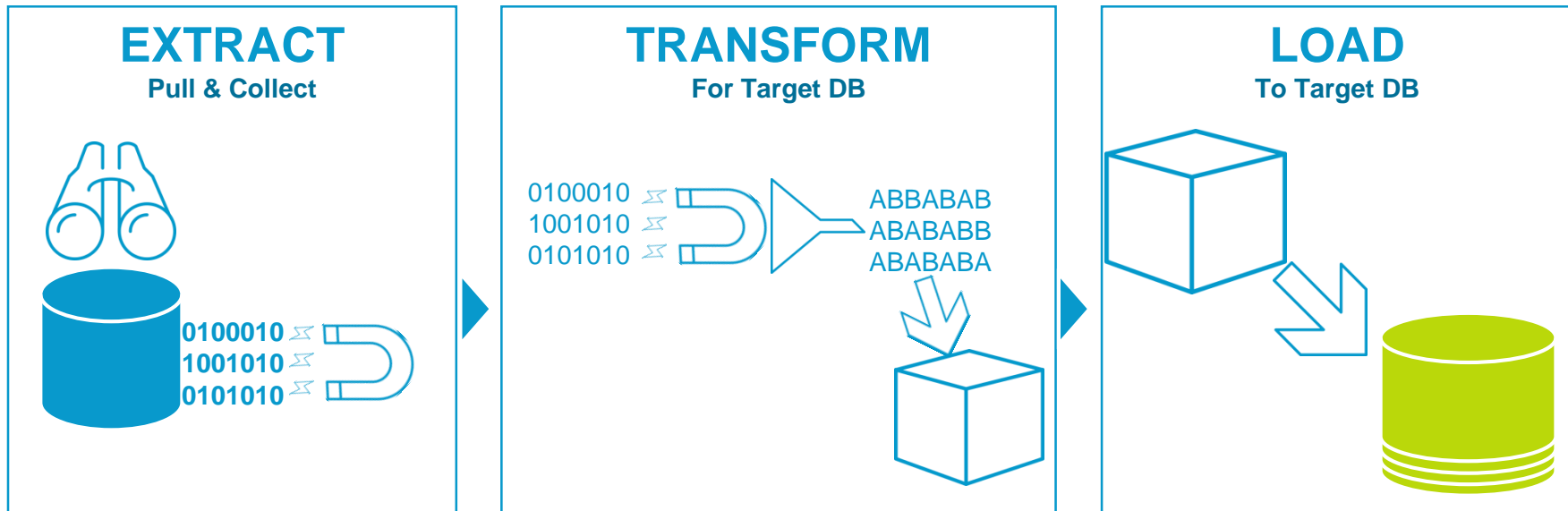


# DATASYNC





# DATASYNC TRANSFORMATION



# ADD-ON FOR SSIS



1

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



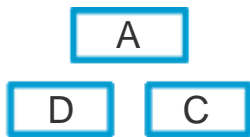
2

Determine how often to query for asynchronous capture of source data



3

Retrieve the changed data from the changed tables



4

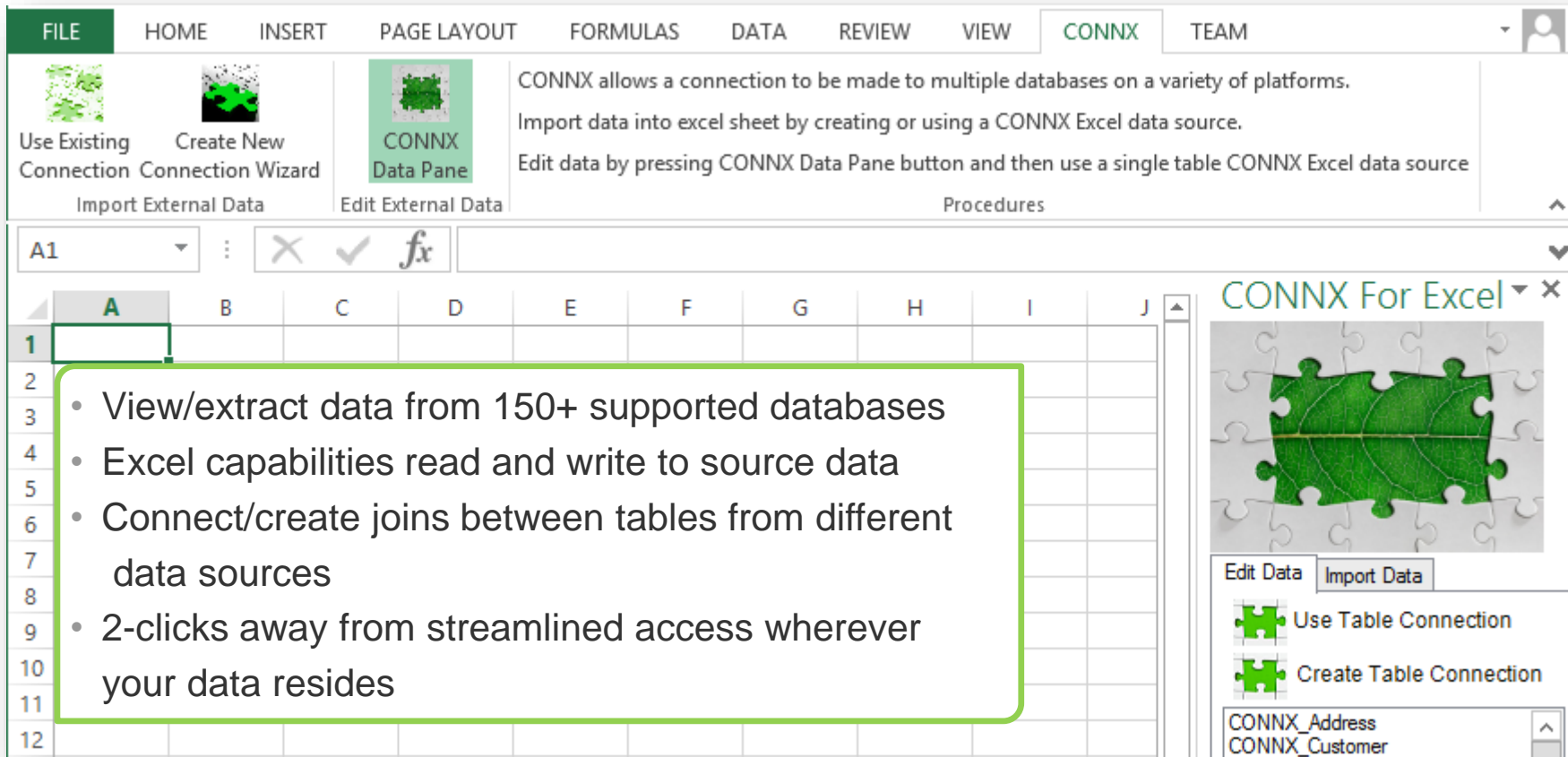
The file is split into inserts, updates, and deletes for processing



5

The changes are applied to the destination SQL Server Table

# ADD-ON PRO FOR EXCEL FOR DATA VISUALIZATION



**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 : [X] [✓] [fx]

**A** B C D E F G H I J

1 [ ]  
 2  
 3  
 4  
 5  
 6  
 7  
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 9  
 10  
 11  
 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** [X]

Edit Data Import Data

[ ] Use Table Connection  
 [ ] Create Table Connection

CONNX\_Address  
 CONNX\_Customer

# INFONAUT FOR SQL QUERIES AND REPORTS

## Build & Manage Queries & Reports

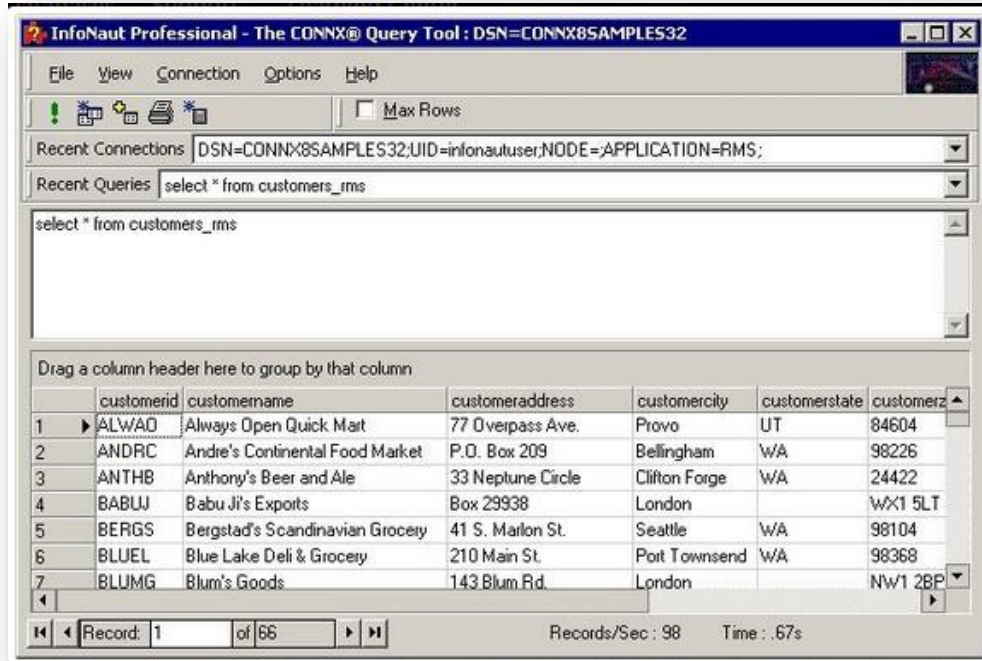


### File Formats

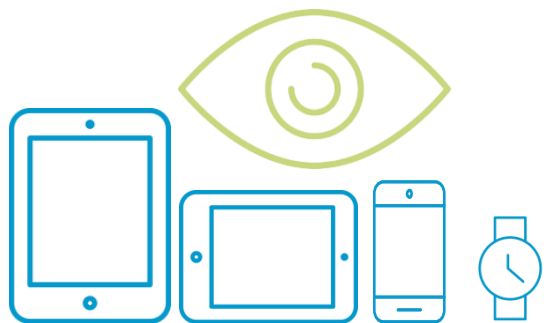


XML®, **Excel**,  
Microsoft Query®,  
HTML, ASP, CSV,  
SQL and TXT.

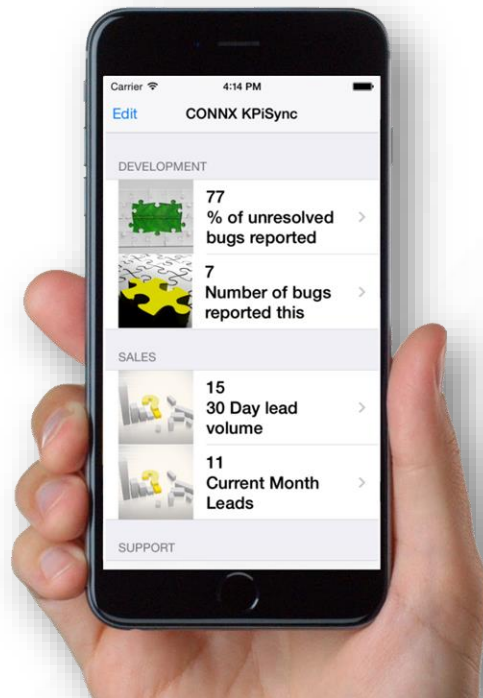
## SQL Statement Builder



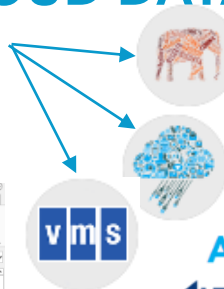
## Visualize Key Metrics



## On Any Device





[illegible]

# CONNX VIDEO DEMO

VIDEO DEMO:



