



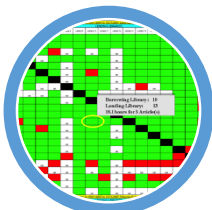
IDS Data Services

IDS Conference 2014
Syracuse, NY

OCCL Statistics

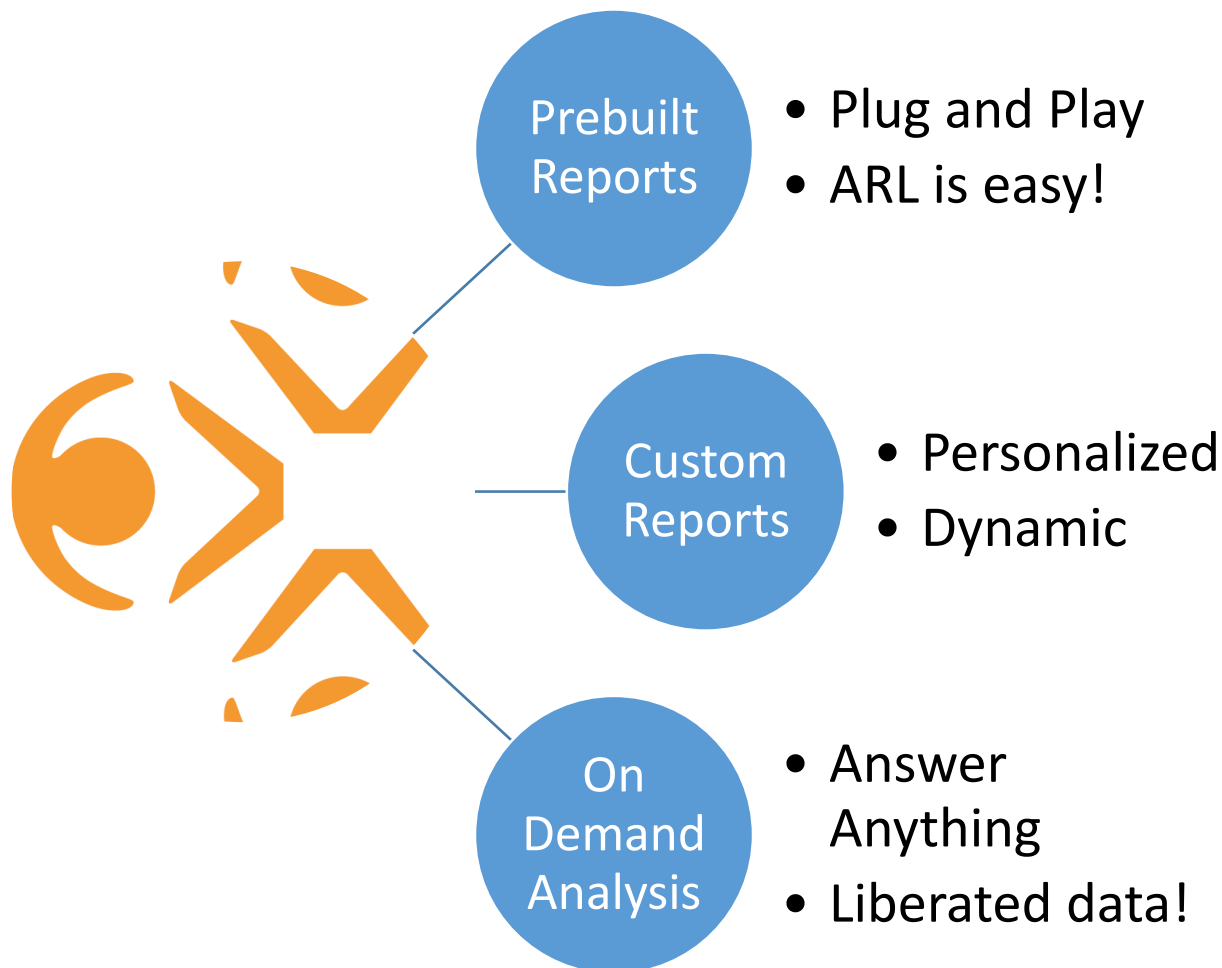


ILLiad Reports



TPAM

Data Platform



Standard Reports

- Available online, on demand
- Answer those pernicious “easy” questions
- Accessed through a web interface

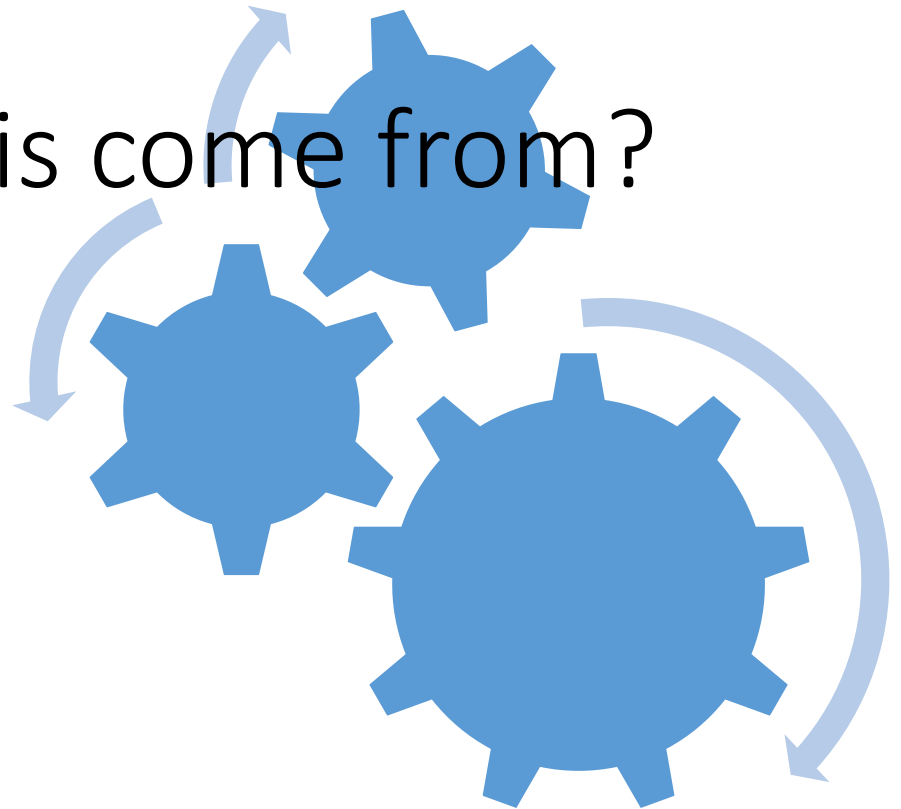
Custom Reports

- Opportunity for highly customized dashboards
- Create reports using free online tools
- Create on a PC, upload and consume on the web

On Demand Analysis

- Breeze through your data
- Find meaningful questions – and answer them
- Use free web tools and software you already own

Where does this come from?





IDS L&D-GIC



How is this different from ILLiad?

- Information available at the consortial level
- You will be able to decide what to share with others
- Data is restructured and “scrubbed” for more reliable reporting
- Higher levels of customization

What will this do to my server?

- Nothing – data is yours, but lives with IDS
- By providing a consortia-wide reporting solution we can provide an enterprise grade product
 - Save individual libraries the cost of hosting analytics platforms
 - A single point of service for system-level problems
 - Reduces the analysis threshold – you don't need programmers, just curiosity

And what happens to my data...?

Extract, Transform, Load

Extract

- Logic pulls values from key ILLiad tables
- Information is loaded into staging areas for processing
 - The load on your servers ends after a simple query
 - No ILLiad slowdown
 - No additional server hosting
- All patron identity information is irreversibly hashed before it enters Data Services





Transform

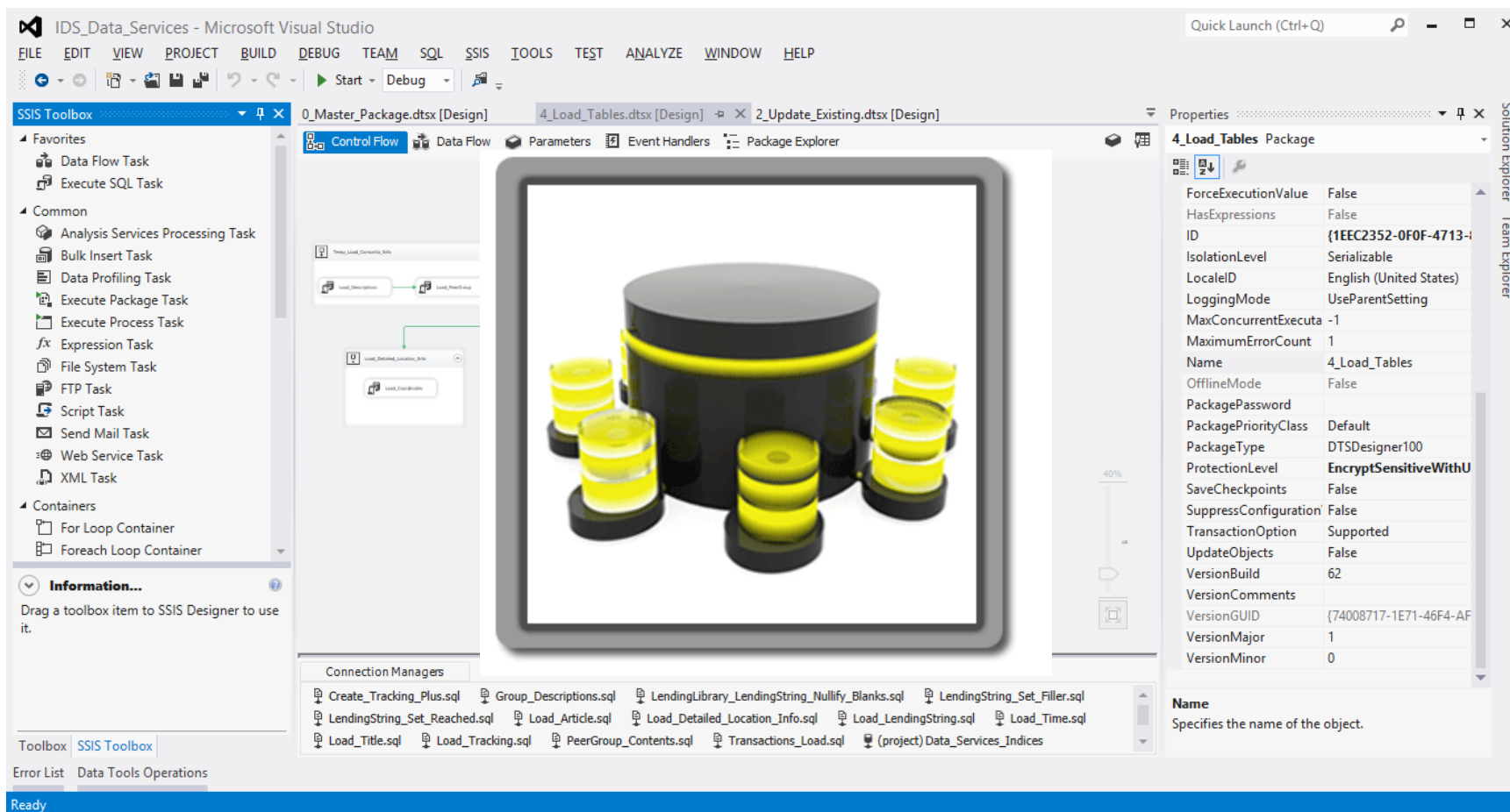
- Data in the staging area is treated by various scripts, lookup functions, and normalization methods
 - Make sure years are actually years
 - Check for valid system numbers
 - Strip problematic characters from numeric columns
- Check records against existing transactions to keep information up to date
- Alter the data to match a very different schema

Load

- After reformatting, data is moved into a new layout
- Queries are *simplified*
- Access is *faster*
- Management is *easier*



Basically, We'll handle it



IDS_Data_Services - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM SQL SSIS TOOLS TEST ANALYZE WINDOW HELP

SSIS Toolbox

- 0_Master_Package.dtsx [Design]
- 4_Load_Tables.dtsx [Design]
- 2_Update_Existing.dtsx [Design]

Control Flow Data Flow Parameters Event Handlers Package Explorer

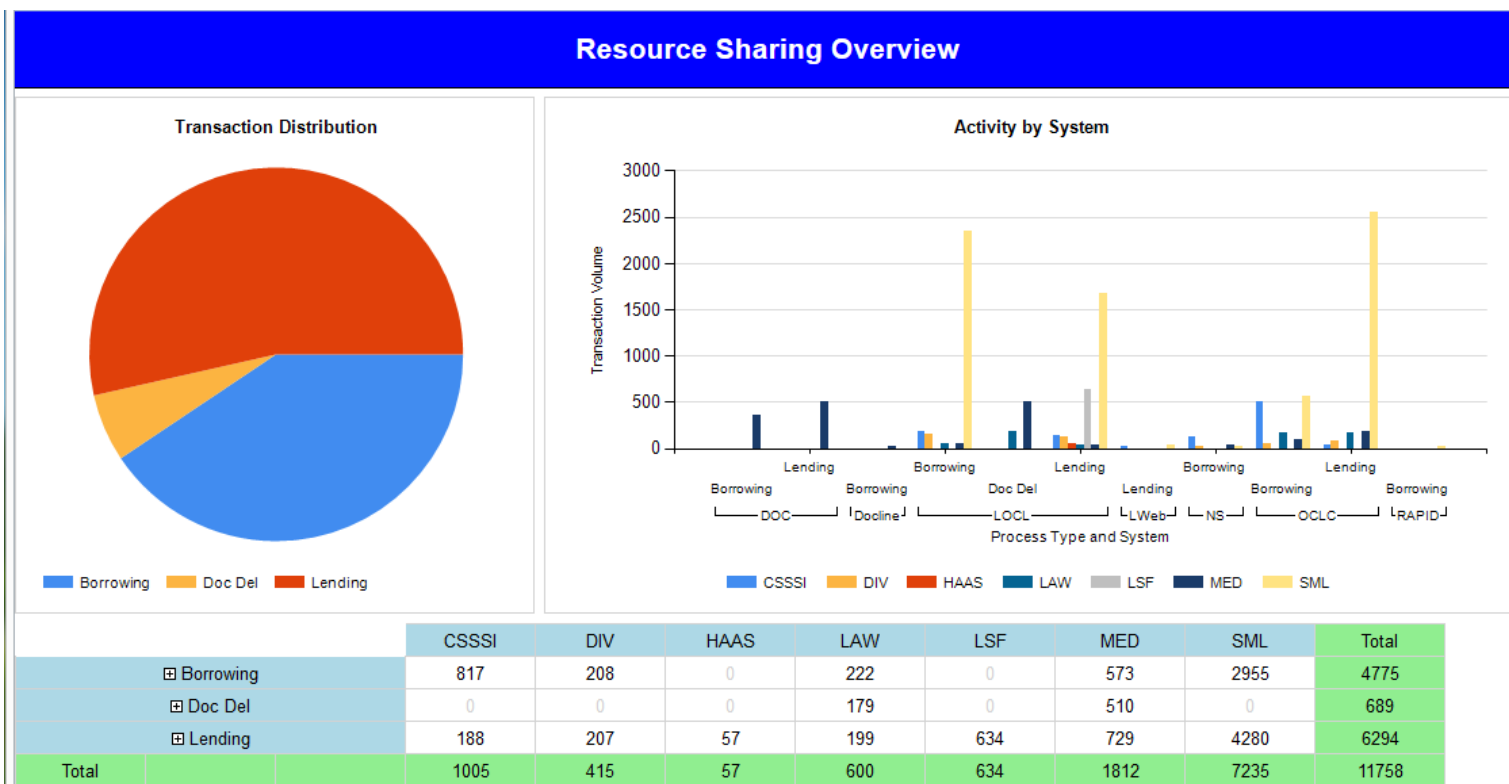
4_Load_Tables Package

ForceExecutionValue	False
HasExpressions	False
ID	{1EEC2352-0F0F-4713-4...}
IsolationLevel	Serializable
LocaleID	English (United States)
LoggingMode	UseParentSetting
MaxConcurrentExecuta	-1
MaximumErrorCount	1
Name	4_Load_Tables
OfflineMode	False
PackagePassword	
PackagePriorityClass	Default
PackageType	DTSDesigner100
ProtectionLevel	EncryptSensitiveWithU
SaveCheckpoints	False
SuppressConfiguration	False
TransactionOption	Supported
UpdateObjects	False
VersionBuild	62
VersionComments	
VersionGUID	{74008717-1E71-46F4-AF...}
VersionMajor	1
VersionMinor	0

Name
Specifies the name of the object.

Ready

Example 1: Stock Reports



Example 2: Custom Reports

ScaTr Report

This report captures the transactions that are currently outstanding in the scan and deliver queues, the transactions completed in the past hour since running the report, and all the transactions that have been acted upon since midnight. Only can and deliver requests (doctype "scan") are captured. The outstanding queues are considered to be "Awaiting Scan and Deliver Processing" and "Unavailable In Local System" The possible actions are "Cancelled by ILL Staff" and "Request Sent". Only borrowing transactions are examined

Outstanding at Hour Start

TNs in Status	Transaction Status
4	Awaiting Scan and Deliver Processing
14	Unavailable in Local System

Actions Past Hour

	Request Sent	Total
mchughd	4	4
System	5	5
Total	9	

Actions Since Midnight

	Cancelled by ILL Staff	Request Sent	Total
glr7	15	12	27
mchughd	7	21	28
System		25	25
th49		1	1
Total	22	59	

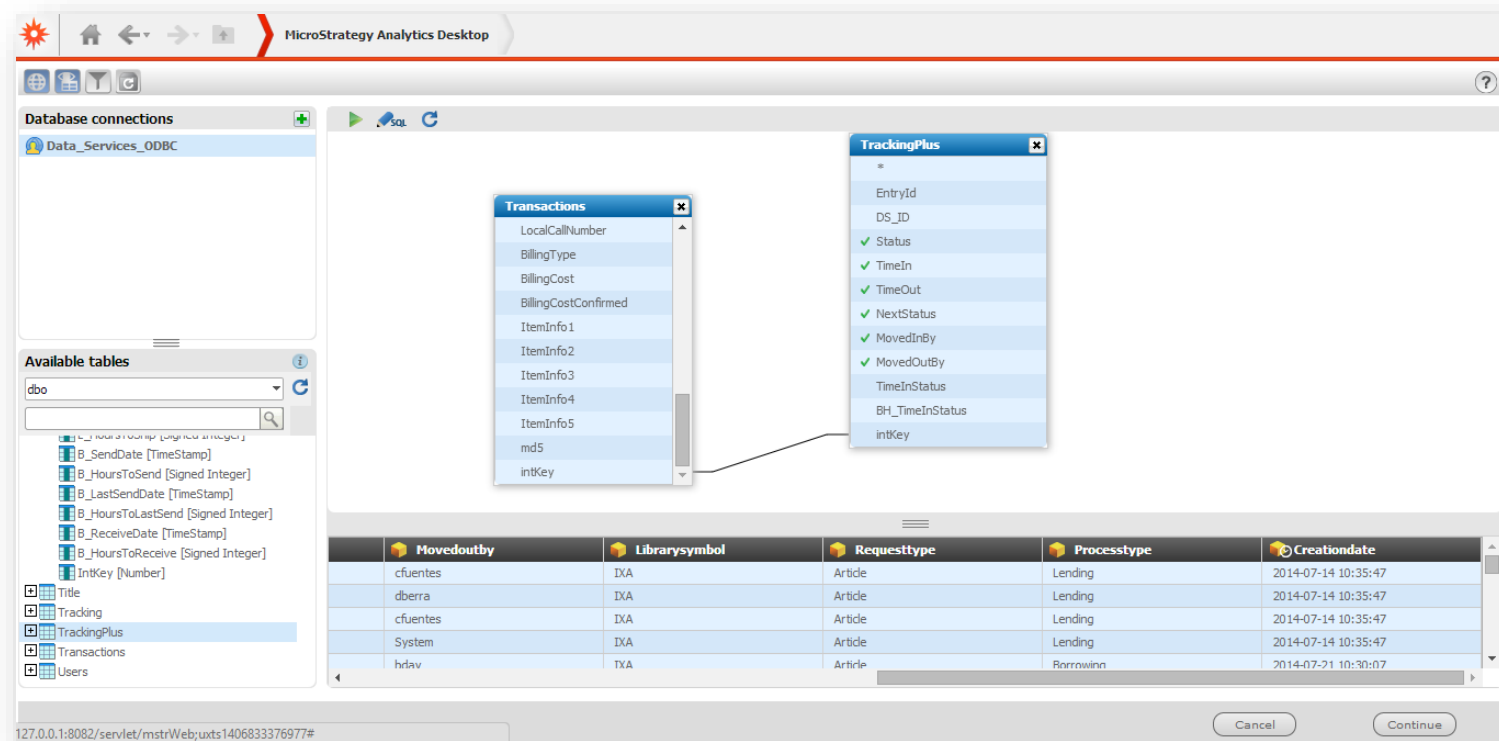
Currently Outstanding Details

TN	Transaction Status
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Actions Since Midnight Details

TN	User Name	New Status	Time
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Example 3: Custom Analytics



MicroStrategy Analytics Desktop

Database connections: Data_Services_ODBC

Available tables: dbo

- B_SendDate [TimeStamp]
- B_HoursToSend [Signed Integer]
- B_LastSendDate [TimeStamp]
- B_HoursToLastSend [Signed Integer]
- B_ReceiveDate [TimeStamp]
- B_HoursToReceive [Signed Integer]
- IntKey [Number]
- Title
- Tracking
- TrackingPlus
- Transactions
- Users

Transactions

- LocalCallNumber
- BillingType
- BillingCost
- BillingCostConfirmed
- ItemInfo1
- ItemInfo2
- ItemInfo3
- ItemInfo4
- ItemInfo5
- md5
- intKey

TrackingPlus

- EntryId
- DS_ID
- ✓ Status
- ✓ TimeIn
- ✓ TimeOut
- ✓ NextStatus
- ✓ MovedInBy
- ✓ MovedOutBy
- TimeInStatus
- BH_TimeInStatus
- intKey

Movedoutby	Librarysymbol	Requesttype	Processtype	Creationdate
cfuentes	IXA	Article	Lending	2014-07-14 10:35:47
dberra	IXA	Article	Lending	2014-07-14 10:35:47
cfuentes	IXA	Article	Lending	2014-07-14 10:35:47
System	IXA	Article	Lending	2014-07-14 10:35:47
hrlav	TXA	Article	Rinnrwin	2014-07-21 10:30:07

127.0.0.1:8082/servlet/mstrWeb;uxts1406833376977#

Cancel Continue

Some Examples

The workshop...





Much is possible now

- Identify unused queues easily as well as workflow bottlenecks
- Generate billing rates per queue to estimate ILL cost per transaction
- Figure out where you are in other peoples' lending strings
- Figure out who, in your lending strings, is actually filling your requests and at what point

Much more is possible...

- The more data we have, the better the data becomes
- Truly collaborative and easy collection development
- Fully automated annual reports, custom printing, and automatic email report subscriptions
- Identify unused queues easily as well as workflow bottlenecks
- Integration with OCLC APIs to verify our information
- Researching possibility of working with CCC to evaluate buy vs. borrow en masse
- Smart distance measurement and known lenders



IDS

Data

Services

Stay Tuned...