Warner Bros & Microsoft
EIDR Integration Pilot

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Executive Summary

- Total estimated direct savings with 1 business partner: **650 hours/year**
- Total estimated future savings with 1 business partner: **1,100 hours/year**
- Total estimated multiplied savings as new biz partners are added: **8,750 hours/year**
  - Additional Partners = The Multiplier Effect (Assume 5)
  - Initial upfront effort is approx. 70%-80% of the total effort
Pilot Overview

The goal of the pilot was to implement EIDR to address manual process steps that resulted from a lack of a unique product identifier across the content ordering, delivery and reporting workflows between WB and Microsoft.

The scope of the pilot was New Release theatrical titles owned by WB and ordered by Microsoft for sale on their online storefront on Xbox Live.

Departments

Warner Bros.

- **Avails** – Research available titles & announce title avails list to customer
- **Data Servicing** – Manage master data & request EIDR #’s
- **Digital Distribution Ops** – Manage digital supply chain
- **Distribution Services / DETE** – Manage orders, create & deliver digital assets

Microsoft

- **Content Management & Operations** – Process avails and order titles, receive and secure assets, ingest metadata & provide performance reporting (Point of Sale & Royalties)

Key Issues

Warner Bros.

- **Consolidated Reporting**: Time spent conducting manual searches across multiple sources of data for Product Performance Reporting, Asset Delivery Metrics, Tech Ops Invoicing, etc.
- **Customer Queries**: Time spent responding to retailer inquiries and maintaining data logs and spreadsheets

Microsoft

- **Manual QC**: Time spent manually identifying assets delivered by WB
- **Asset Queries**: Difficulty reconciling delivered assets with only title information (no unique identifier)
- **Manual ingestion**: Time spent matching assets to data throughout the distribution workflow
EIDR Initiation & Setup

There are several set-up activities and decisions that need to be considered for a successful implementation.

1. Confirm Scope & Obtain Support
   - Appoint an initiative leader
   - Decide on workflows and scope
   - Conduct regular planning meetings up to 12 months prior to launch

2. Plan & Prepare Data Structure
   - Determine how to integrate the EIDR # and attributes
     - Implement EIDR at a title and version level
     - Include EIDR # in avails & metadata provided by WB to Microsoft
     - Include EIDR # in asset file names delivered to Microsoft
     - Include EIDR # in POS and Royalty reporting back to WB

3. Integrate Systems & Workflows
   - Document future state integration diagram
   - Establish integration initiatives
     - Develop an API to obtain EIDR #’s for each new title
     - Modify integration between WB’s MDM system ‘MSB’ and the avails system to provide EIDR #
   - Use EIDR # on avails list, metadata and file name to reconcile title master data

The total initiation and set-up time for this pilot was 811 hours for WB and 114 hours for Microsoft, across multiple departments and 6-8 resources.

Planning effort spanned approximately 1 year equating to an average of ~15 hours/week.
Integration Points
The scope of this pilot included development of 2 new integration points for WB.

1. WB’s MSB metadata management system to the EIDR directory. Requests and applies new EIDR #’s to WB titles.

2. WB’s MSB system to the Avails system (RRTS) to provide the EIDR # on avails titles
   - Facilitating Microsoft reporting back to WB with EIDR detail

Benefits Identified
- Reduction in QC efforts
- Reduction in customer queries
- Improved reporting / invoicing capabilities
## Pilot Benefits: Expected Benefits Identified as Result of Pilot

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<th>Issue</th>
<th>Solution</th>
<th>Metrics</th>
<th>Party</th>
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<td><strong>Significant Manual QC</strong></td>
<td><strong>Solution</strong>&lt;br&gt;• Manually identifying assets delivered by WB&lt;br&gt;• Files opened to identify correct version</td>
<td><strong>Effort Reduction</strong>&lt;br&gt;• Approx. 5,400 files delivered/year&lt;br&gt;• 1-2 minutes QC per file&lt;br&gt;• Equals up to 270 hours/year or ~ .15 FTE</td>
<td><strong>Retailer</strong></td>
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<td><strong>Benefit: Reduction in QC effort (in receiving)</strong>&lt;br&gt;• Microsoft matches EIDR # in the file name to the Avails list without the need to manually QC/reconcile the asset version</td>
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<td><strong>Fuzzy Title Matching</strong></td>
<td><strong>Solution</strong>&lt;br&gt;• Manual effort to provide asset delivery reports&lt;br&gt;• Consolidating data using fuzzy title matches</td>
<td><strong>Effort Reduction</strong>&lt;br&gt;• ~100 ad-hoc report requests/year&lt;br&gt;• Average 5 hours per request&lt;br&gt;• Equals 375 hours/year or 0.22 FTE</td>
<td><strong>Content Provider</strong></td>
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<td><strong>Delivery Metrics Reporting</strong></td>
<td><strong>Solution</strong>&lt;br&gt;• Provide EIDR #’s to retailers who can include in reporting back to WB</td>
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<td><strong>Benefit: Reduced Time Matching Data</strong>&lt;br&gt;• Reduction in manual effort to match title data provided by different retailers with internal reporting for delivery reports</td>
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<td><strong>Asset Identification Queries</strong></td>
<td><strong>Solution</strong>&lt;br&gt;• Time spent handling:&lt;br&gt;  • Asset id queries for QC&lt;br&gt;  • Asset version queries&lt;br&gt;  • Lost file queries&lt;br&gt;  • Manual reconciliation and fuzzy title matching</td>
<td><strong>Effort Reduction</strong>&lt;br&gt;• Approx. 50 queries from Microsoft/year&lt;br&gt;• Avg 5-10 mins to resolve query&lt;br&gt;• Equals ~7 hours/year for 1 partner</td>
<td><strong>Retailer&lt;br&gt;Content Provider</strong></td>
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<td><strong>Benefit: Reduced customer queries</strong>&lt;br&gt;• Customer service effort reduced&lt;br&gt;• Reduction in time to maintain data logs and spreadsheets to handle customer queries</td>
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## Future Potential Benefits: After Full System Integration of EIDR

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| **Manual Re-Bill Invoicing Processes** | • Manually matching internal invoice line items with retailer product identifiers  
• WB must export invoice data to spreadsheets and manually link every title to its partner’s unique IDs  
• Determines material servicing and delivery fees | **Effort Reduction**  
• 2 days to process large files  
• Additional 1 day to complete vlookups/research  
• Approx. **1,000 less hours/year or ~.5 FTE**  
• Based on reduction in manual title matching component | **Content Provider** |
| **Solution**                       | • Integrating EIDR # into WB’s order management system and matching asset delivery data  
**Benefit:** Reduction in manual effort to match internal job data with retailer identifiers  
• Including extracting invoice line items, researching external product numbers & title name matches  
• Reducing dependence on fuzzy title matching based on text fields | **Effort Reduction**  
• 3-4 high complexity reports/month taking 1-2 days  
• 16 low complexity reports/year taking 2-4 hours  
• Equals **96 less hours/year** | **Content Provider** |
| **Manual Performance Reporting Processes** | • Sales performance reporting using raw data files from retailers  
• Manually matching data using title match searches & vlookups | **Benefit:** Quicker more accurate data consolidation/ Better decision making  
• Enable better matching & and consolidation of sales data  
• Improved business decisions can be made because of the efficiency and accuracy of the data reported | **Content Provider** |
# Potential Use Cases

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<tr>
<td>Technical Services Organizations</td>
<td>• Uses EIDR to automatically link asset servicing requests/deliveries with billing and reporting</td>
<td>X</td>
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<td>Cable Service Provider or Broadcasters</td>
<td>• Uses EIDR to track VOD metrics across several partners including, MSOs, content networks, on-demand delivery partners and usage measurement organizations</td>
<td>X</td>
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<td>Digital Subscription Rental Channel</td>
<td>• Uses EIDR to provide by-title reporting back to content owners for rev share deals</td>
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<td>Ad-Supported Digital Streaming Channel</td>
<td>• Uses EIDR # to link ad-sales metrics with social media reporting</td>
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