

# Prodapt Chase Extraordinary

## Accelerate Fiber Rollout Using Digital Workflow Strategy

Reduce time-to-market of FTTP delivery by 45%

Credits

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### Lack of a single solution for Opportunity identification, Planning, Build, and Release (OPBR) affects time-to-market of Fiber-to-the-Premises (FTTP) rollout

There is a **big push by major countries across the globe, to deliver full-fiber broadband** to millions of premises in the next 5-8 years.

#### Fiber operators and service providers are striving to meet the periodic targets for fiber rollout.

However, they encounter numerous challenges across the **OPBR** workflow, which delays the fiber releases and increases the average cost per premises (CPP).



#### Major challenges faced by fiber operators and service providers



Multiple siloed systems affect the time-to-market Multiple siloed systems involved from opportunity planning to release management stages

Lack of visibility to measure the progress Multiple partners manage premise releases through different stages of implementation. There is a lack of visibility of premise serviceability to measure the progress

#### Limited automation

As 50+ teams are involved in fiber releases, there is a lack of referential integrity between network plan and build

#### Increased CPP

As time to build the fiber network takes more time, it increases the average CPP

Microsoft and several telecoms are part of a plan to wire rural America Source – Bloomberg

As part of the Project Gigabit, UK Govt is targeting to cover 85% of UK homes to have gigabit broadband available by 2025 Source –

US Government has promised 35% of Rural America to have high-speed internet over 8 Years Source -

Multiple siloed and disparate systems require multiple planning and build partners, which slows down the process of network releases and results in more back-office work



## Challenges magnified due to **diversified FTTP landscape which lacks an integrated workflow** and results in delayed fiber releases





To overcome the above challenges, **service providers need to shift from siloed network rollout to an OPBR unified workflow strategy,** which integrates the opportunity identification, planning, build and release management in an agile model. This will **enable service providers to release fiber across premises daily instead of monthly/quarterly basis.** 

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### Prodapt,

**End-to-end (E2E) unified digital workflow strategy for OPBR implementation** Integrate siloed application landscape and accelerate the time-to-market of FTTP releases





## **Implementing the key levers across the OPBR phases** to accelerates the build cycle, while reducing the cost

Implementing end-to-end tracking of Integrating opportunity premises from third network build progress, with subparty vendors using a vendor management tracking of premise serviceability status portal to accelerate network expansion plans Tracking the network release by a single Integration of third-party vendors such as opportunity with progress status of the gas/electricity providers with an existing network premises, which will give a clear picture on connection will enable service providers to 3 the serviceability status accelerate the network expansion in shorter time Splitting the large opportunities Leveraging an integrated platform into sub-opportunity premises, to for all partners to gain transparency achieve 45% faster releases of serviceability to achieve increased Splitting the large opportunity operational efficiency As all partners will work on the same premises into distribution and nodal cabinets. Split cabinets can be made

system, the network build and plan status will be updated in the same system

With these key levers, service providers can achieve **45% faster premise releases and** reduce the average cost per premises (CPP) by 35%

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serviceable within a week, in contrast

to traditional quarterly releases



## **Splitting the large opportunities into sub-opportunity** premises, to achieve 45% faster releases





## Challenges in rolling out the fiber network using a traditional release process

- In a traditional approach, fiber network rollout is achieved quarterly due to the time taken to complete the full builds
- Even if some premises are built and are ready to be poweredon, **it needs to wait until the entire opportunity premise is completed**, thereby delaying the rollout
- Multiple teams such as the opportunity planning team, build team, governance team, etc., must get involved manually to create and manage the fiber and premisesrelated activities and publish the final release every quarter

#### Recommendations

- Split the large builds into address groups and service/subnodes to accelerate rollouts
- Instead of releasing by opportunity, split the opportunity into subcategories called address groups to enable monthly release of the premises
- Split the address groups into L3 service node and L4/L5 sub-node to enable the release of premises every week

#### **Benefits**

- Premises can be released on **monthly** and **weekly basis** instead of waiting for the quarterly release
- This results in **45%** faster premise releases when compared to the traditional process

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## Implementing **end-to-end tracking of network build progress**, with sub-tracking of premise serviceability status

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#### Challenges

- The traditional fiber network expansion process lacks endto-end tracking of the premise, from the opportunity to release
- Manual intervention is required to manage a large number of premises, which is time-consuming and prone to human errors
- Reporting the serviceability status of the premises clearly is challenging and it can be achieved from the opportunity level only

#### Recommendations

- Implement a premise management module to maintain premises related data in one place
- **Configure the system** to enable the user to track the status of the premises from the opportunity to release
- Automate the release process, to reduce the manual work
- Ensure that the system **generates the release sheet and sends them to the next module**, based on the status of the opportunity

#### **Benefits**

- · Opportunity can be tracked and reported accurately
- Risks and issues of building an opportunity can be obtained

## **Integrating opportunity premises from third party vendors** using a vendor management portal to accelerate network expansion plans



#### Challenges

- Incorporating the existing fiber premises is challenging, as third-party vendors (E.g., gas/electricity providers) maintain it
- Lack of system availability to maintain premise details
- Need for manual intervention results in human error and delayed processes

#### Recommendations

- **Create a new API to integrate the new premises** from external vendors. Avoid using Excel-based approach, as it delays the execution of the process
- Create a new system to maintain all the log and audit data, to avoid manual errors during processing of the premise data
- **Provide access for third party vendors** to drop the premise-related data into the secure share path
- Leverage the new system to **access the shared file and process the data**, which can be managed by the planning team and the build team

#### Benefits

- Manual effort is reduced for various teams
- Implementing the system accelerates the fiber rollout rate by 45%

## **Leveraging an integrated platform for all partners** to gain transparency of serviceability to achieve increased operational efficiency

![](_page_8_Figure_1.jpeg)

#### Challenges

- Due to the involvement of multiple partners, there is no central system to track the entire process from opportunity to release
- The traditional process involves **Excel-based release sheets**, which is time-consuming and prone to human errors as multiple partners work on the same document
- **Critical information cannot be restricted**/protected and are visible to all partners, leading to data security risks and confidentiality issues
- Current systems can be built only with T&M type, which is costly

#### Recommendations

- Implement an integrated platform for all partners to gain transparency of serviceability
- **Introduce a new access role**, where the progress can be checked and tracked from opportunity to release
- Restrict the external partners and vendors from accessing the critical data. Provide access only to the required details, thereby protecting the integrity and confidentiality of the process

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#### Benefits

- Integrity and confidentiality
- Transparency of serviceability of a specific opportunity
- Reporting accuracy
- Reduced maintenance cost

## **Benefits achieved by a leading fiber network operator** in the UK after implementing the OPBR-based E2E digital workflow strategy

Implementing the **4 key enablers** as discussed in this insight, resulted in the following benefits.

**45%** Faster time-to-market of fiber rollouts to premises

**35%** Reduction in the average cost per premises (CPP)

### 50-70%

Reduction of overall manual efforts in the E2E fiber rollout workflow

![](_page_9_Picture_6.jpeg)

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