



RIB

Candy

Estimating, Planning and Project Control

Driven by transformative digital technologies and trends, we are committed to propelling the industry forward and making engineering and construction more efficient and sustainable.

Throughout our 60-year history, our business has expanded its global footprint to incorporate more than 550,000 users and 2,600 talents, with the vision of transforming the operation into a worldwide powerhouse and providing innovative software solutions to our core markets – while placing our people at the heart of everything we do.

Managing the entire project lifecycle, from planning and construction to operation and maintenance, the development of our portfolio of software solutions is driven by industry expertise, best practice and a passion to remain at the cutting edge of technology.

Ultimately, we aim to connect people, processes and data in innovative ways to ensure our customers always complete projects within budget, on time and to a high quality, while reducing their carbon footprints.

RIB Software is a proud Schneider Electric company.



RIB | CanBuild

Managing the entire Construction and Engineering process

RIB | Candy

Estimating, Planning & Project Control

RIB | BuildSmart

Construction Cost Management and Enterprise Resource Planning (ERP)

RIB | Connect

Project Insight & Business Intelligence

WHO WE SERVE

<p>Estimators</p> <ul style="list-style-type: none"> Higher success rate on budgets, bids and estimates Reduced risk of mistakes due to improved accuracy High-speed calculation allows rapid assessment of alternative strategies An easy-to-use, all-in-one system resulting in quick turn-around time on estimates 	<p>Planners</p> <ul style="list-style-type: none"> An easy-to-use, all-in-one system for scheduling and planning No more time-consuming manual checking Better decision making due to accurate analysis Integrate with Estimate for Forecasting and Cashflow 	<p>Commercial & Project Delivery Team</p> <ul style="list-style-type: none"> Seamless continuity between estimating and post-tender commercial control Real-time analytics, cost reporting and dashboarding Timeous, effective and powerful decision making based on real-time, accurate information in one click
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<p>Procurement Manager</p> <ul style="list-style-type: none"> The complete procurement process in one system An effective communication tool for both buyers and suppliers Real-time order status and inventory availability information Web-based, accessible from anywhere, anytime 	<p>Accounts Department</p> <ul style="list-style-type: none"> A simple-to-use, all-in-one system with multi-user access and role based permissions Multi-company, multi-currency features for global compatibility Real time costing with live accrual allocation Inter-company transactions, reporting and consolidations 	<p>Plant and Equipment Manager</p> <ul style="list-style-type: none"> Tailor equipment management to your needs - by location, availability, utilisation and costs from multiple workshops Accurately track & safeguard your assets Maximise asset utilisation to boost your efficiencies and ROI
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<p>Stores Manager</p> <ul style="list-style-type: none"> Web-based system, accessible from anywhere, anytime You save time and money through better inventory organisation Quickly see and react to surplus inventory Detailed reports provide clearer insight into the organisation's resources 	<p>Payroll Manager</p> <ul style="list-style-type: none"> Handles even the most complex calculations Flexible payroll types, pay periods and earning and deduction sets Informative and instantaneous reporting User-defined parameters 	<p>HR Manager</p> <ul style="list-style-type: none"> All employee data in one place Electronic Approval System (EAS) and Employee Self- Service (ESS) facilities Mass capture facility Camp Management Allows for accurate statistics and reporting across groups, companies and payrolls
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C-Level and Executive Management	
<p>CEO, CFO, COO, GM, Commercial Director, Contracts Director, Owner, President, Board of Directors</p> <p>Our software solutions enable you to optimally deliver the built environment and enhancing the outcomes of your business by providing you with:</p> <ul style="list-style-type: none"> Enhanced cost and schedule performance and certainty Accurate and appropriate information in real-time Proactive management of complex projects Increased productivity Proactive management of project risk Improved financial returns with lower volatility 	

Civil	Buildings	EPCM/Consulting	General Contractor	Industrial	Infrastructure
Marine	MEP	Mining	Oil & Gas	Power & Energy	Specialist Subcontractor

CANDY

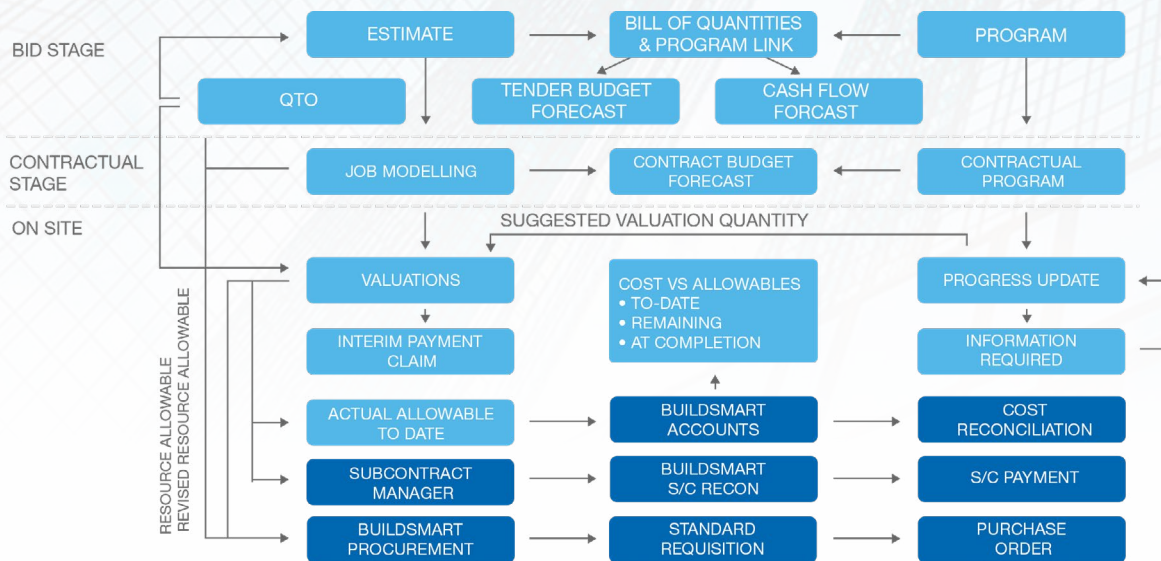
The ultimate Construction, Estimating, Planning and Project Management Software, Candy is unique, powerful, and dynamically focused on project control in the construction & engineering industry, a field in which we have gained enormous experience.

We have specifically targeted the contractor's requirements, from quantity take-off, pricing and planning a project, controlling at site level, through to the final certificate. Candy uniquely provides an interactive link between the Bill of Quantity (BOQ) and estimate and the programme or schedule of work in one exceptional construction project management solution. Put simply, it aligns time and money. By bringing together these two key factors of construction & engineering projects, management and client alike have a wealth of information at their fingertips.

BENEFITS AT A GLANCE

- Candy combines its powerful features conveniently into a single user interface, eliminating departmental silos
- Based on best business practices and processes
- Versatile and scalable: used by small, medium & large entities
- Tender and Project analysis reports which gives you the competitive edge
- Powerful yet user friendly - work the way you think
- Substantially improves speed, accuracy, transparency and auditability of Estimation and Project Controls while considerably reducing mistakes
- Minimal hardware specification and IT infrastructure required
- Low cost of activation and ownership
- Eliminate paper usage and manual processes
- Enhanced and developed on a continual basis in line with User requirements, industry and technological trends
- New versions and updates available immediately for download at no additional charge
- Dynamic integration with BuildSmart for upfront purchase control (procure to pay) and accurate Budget vs Cost analysis and reporting

COMPLETE PROJECT CONTROL



"I believe that Candy is the best Estimating, Planning and Construction control tool available nowadays"

Mr. Husni Sharabati, Estimating Dept. Manager, MAG Engineering & Contracting Co.

QUANTITY TAKE-OFF (QTO)

On-screen take-off from 2D drawings or models dynamically integrated with Candy's Estimating & Project Control components.

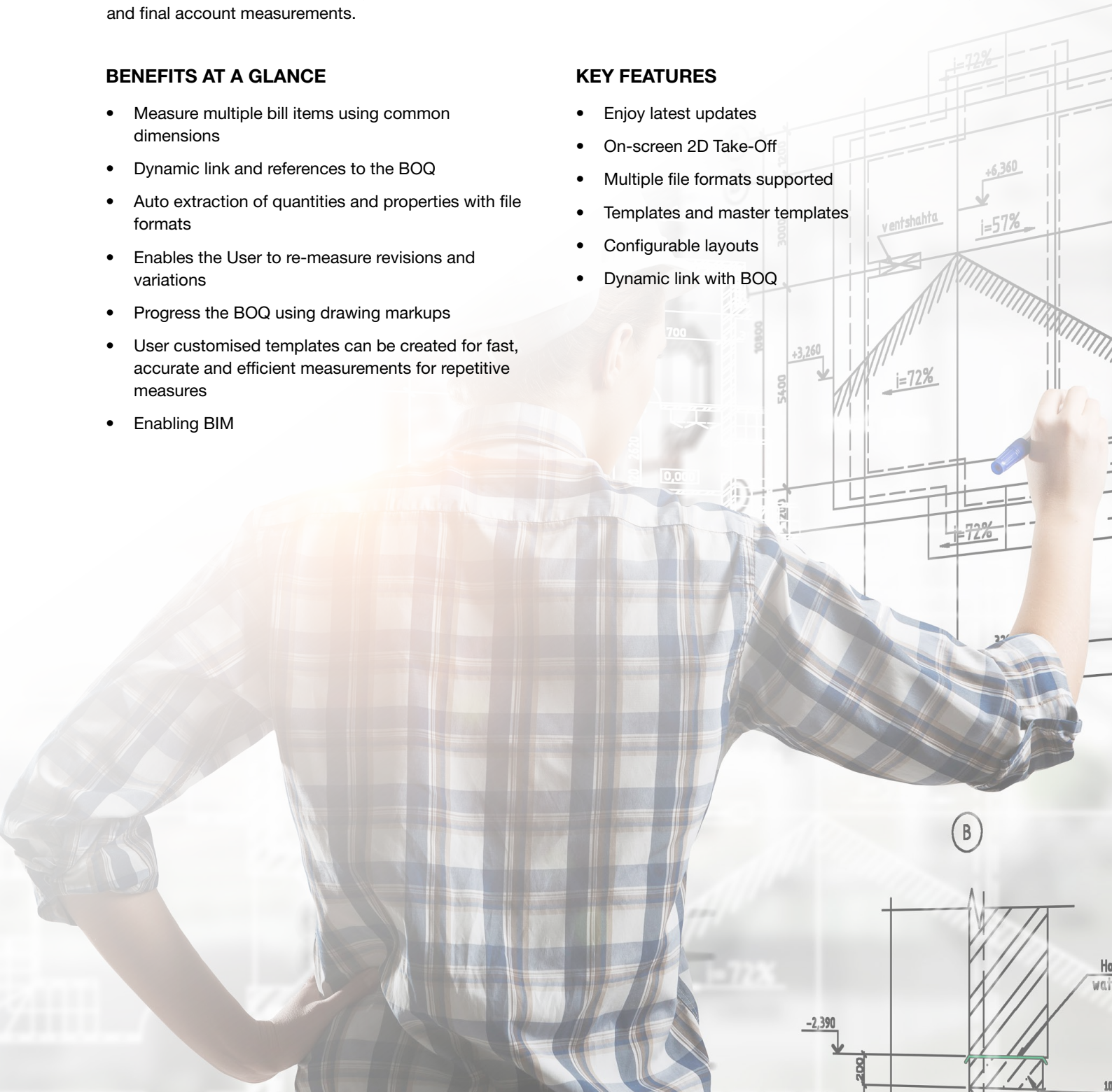
One of the most important elements of estimating, quantity take-off (QTO) can be time-consuming with significant room for error. Candy's Quantity Take-off (QTO) module provides an on-screen take-off solution that seamlessly allows you to add or extract quantity information from 2D drawings or models and electronically compile Bills of Quantities - all fully integrated with Candy's Estimating and Project controls that enables an accurate foundation for your estimate, progress and final account measurements.

BENEFITS AT A GLANCE

- Measure multiple bill items using common dimensions
- Dynamic link and references to the BOQ
- Auto extraction of quantities and properties with file formats
- Enables the User to re-measure revisions and variations
- Progress the BOQ using drawing markups
- User customised templates can be created for fast, accurate and efficient measurements for repetitive measures
- Enabling BIM

KEY FEATURES

- Enjoy latest updates
- On-screen 2D Take-Off
- Multiple file formats supported
- Templates and master templates
- Configurable layouts
- Dynamic link with BOQ



ESTIMATING cont.

MARK UP

Net rates can be marked up by item, trade, page range or by resource type. Local and foreign rate components can be marked up separately for multiple currency bills.

REPORTS

A wide range of standard reports are available, while Report Managers are used to create customised, presentation-quality reports and tailored management reports.

INTEGRATED ESTIMATE AND PROGRAM

Items from the bill of quantities can be allocated to the program activities. The result of the linking process is an accurate forecast of the bill of quantities and a cost-loaded program. Forecasts can be produced for bill items' value and quantity, individual resources or at summary cost code level. Any changes to either the program or the estimate are immediately reflected in the forecasts.

IMMEDIATE FORECAST CASH FLOW

Once the estimate and program have been linked, detailed information from these two systems can be transferred into the cash flow module. This ensures no items are omitted and that the cash flow figures balance with the estimate. This technique allows tender alternatives to be tested easily and the latest bid figures to be included in the forecast cash flow as they become available.

TENDER FINALISATION

Powerful tender finalisation reports are available allowing management the ability to make informed decisions and last minute changes with confidence. High speed of calculations allows rapid assessment of alternative strategies giving you the competitive edge.

KEY FEATURES

- Electronic bill importation
- Free format, first principles pricing enabled worksheet
- Resource-based analytical estimating
- Multiple and customisable document layouts
- Powerful filtering, sorting and grouping of data
- Master pricing and reference libraries
- Pricing templates
- Simple and complex resources
- Indirect Costing
- Alternative estimates and elemental pricing
- Multi-user functionality
- Multi-currency control
- Subcontract and Material Adjudication
- Multiple markups & finalisation
- Comprehensive standard and customisable reports

BENEFITS AT A GLANCE

- User-friendly with minimal training requirements
- Designed specifically for estimating and tendering purposes
- Significant time and cost saving
- Improved bid management and success
- Reduced risk of mistakes and improve accuracy reports
- Production, resource, manhours and wastage analysis and reporting
- Integrates with QTO, Planning, Cashflow, Valuations and BuildSmart Procurement

"I have been using Candy for the last 20 years; it is very useful and the most powerful tool for estimating"

Mr. David Ng, Estimating Manager, Laing O'Rourke

PLANNING

Candy Planning provides a powerful critical path networking system designed specifically for the construction industry. It can be used effectively by a non-planner, but has the features and functionality required by the professional.

FLEXIBLE

Drawing a bar chart, maintaining a detailed precedence network or a combination of these two methods are possible. The network may be entered in a precedence fashion or as a linked bar chart that automatically creates the precedence network.

INTUITIVE

Network loops and activity duplication is checked as activities are entered, reducing input errors and timeous manual checking.

DETAIL

Activities may have notes and comments for annotating program reports or recording site conditions. Networks can be split into any number of subnetworks, which can in turn be subnetworked across nine levels. Information can then be grouped into logical sections and closed in summary form until required.

ORGANISING

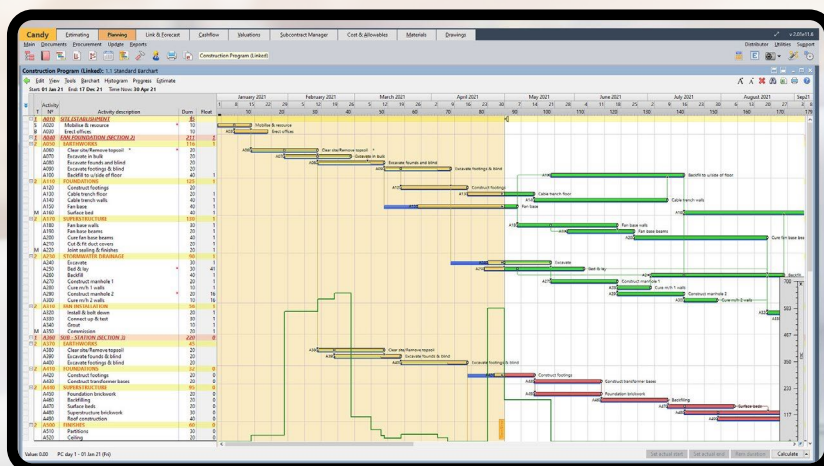
Powerful filtering mechanisms are provided for sieving activities by code, description, float or any user specified data.

RESOURCING

Resources are categorised into simple and gang resources. Resources are effortlessly allocated to activities in the program in order to assess and manage the resource requirements for the project. Resources are analysed using on-screen and report histograms.

PROGRESS

Progress can be recorded to provide an as-built record of a project, while the original network is kept as a base program to be used for comparison against actual progress.



“Candy allows me to set and modify the degree of control I need on a project. The extensive link to the Cash Flow allows me to predict my costs and avert crises. The flexibility of the Planning module adapts to my requirements. On the Dubai airport tender we completed the same quantity of work two months ahead of our competitors.”

Mr. Eric Ettisch, Murray & Roberts

PLANNING cont.

INFORMATION SCHEDULES

Auxiliary Long Lead and Information schedules are dynamically linked to the program. This provides for tracking and recording off-network operations such as client decisions, design work and lengthy delivery items.

TIME/LOCATION

The Time/Location chart is a method of summarising and graphically representing a program against axes of time and location. This facility is suitable for linear activities typically found in programs of hi-rise buildings, roads and rail lines.

BENEFITS AT A GLANCE

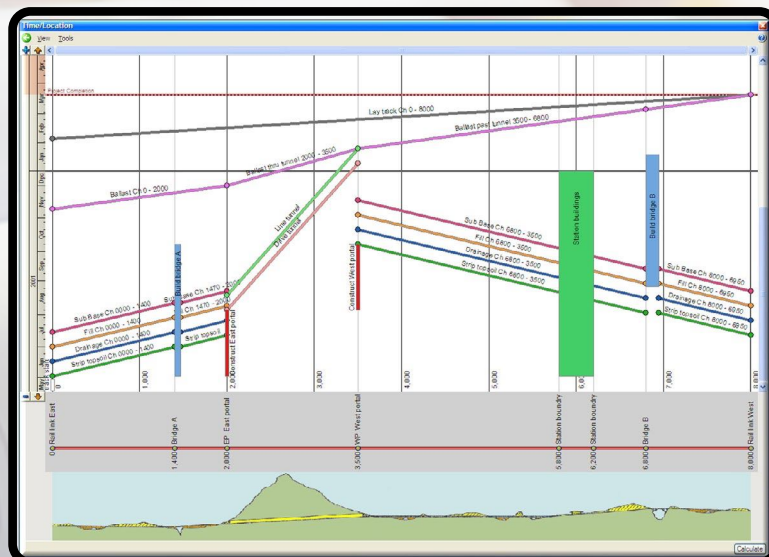
- Planning and scheduling in one system
- Powerful yet user-friendly
- Effective reporting on the project status across all levels
- Reduce input errors and timeous manual checking
- Auxiliary Long Lead and Information Schedules for tracking and recording off-network operations and responsibilities
- Resource planning and levelling
- Integrate with Estimate for Forecasting and Cashflow

INTEGRATED ESTIMATE AND PROGRAM

Items from the Bill of Quantities (BOQ) can be allocated to the program activities. This allows resource or financial information from the estimate to be reflected against the time frame calculated in the program. The resources used in the BOQ can also be plotted as histograms. Any changes to either the program or the estimate will immediately be reflected in the forecast and/or histogram.

KEY FEATURES

- Critical Path, precedence networking
- On Screen Bar Chart
- Multiple and customisable document layouts
- Powerful filtering, sorting and grouping of data
- User defined and WBS coding
- Multiple Calendars
- Resource allocation and graphing
- Progress as-built
- Information Schedules
- Long Lead Schedules
- Interactive Time-Location charting
- Comprehensive standard, as-seen and customisable reports



FORECASTING

The Forecasting module provides a facility for forecasting quantities, values and resources, making use of estimate and valuation information combined with time from the construction program.

INTEGRATING THE BILL OF QUANTITIES WITH THE PROGRAM

Candy has the unique ability to dynamically link the Bill of Quantities with the Program. Items on the Bill of Quantities can be allocated to appropriate activities on the corresponding Program and the bill quantity can also be spread or offset over a portion of the activities duration. The result is an accurate Forecast Budget and accurate Forecast Cash Flow data for Cash Flow analysis.

FORECASTING THE BILL AND RESOURCES

Once the link has been established, financial and engineering information generated in the estimate and valuations can be forecast over time. The resulting information includes each bill item's quantity, resource and financial data allocated to time. Each bill item is priced using resources and Candy can allocate each of the resource quantities and values to time.

SUMMARISING INTO PROJECT CODES (WITH, WHAT & WHERE)

Candy allows the user to summarise bill items and resources into one or more cost codes to produce summaries based on either one or a combination of the cost codes. The three industry standard approaches to controlling a construction project are provided for - resource based (with), location (where) and task-orientated control (what).

FORECASTING THE SUMMARY COST CODES (WHEN)

Additionally, utilising the information generated by the Bill -Program link, the "when" control measure can also be achieved. In conclusion, control of what (task) is being done, where (location) is it being done, with what (resources) is it being done and when (time) will it be done, is readily available.

FORECASTING ALLOWABLE

Once the Bill of Quantities and the Program have been updated, the remaining allowable can be calculated and spread across the remaining time.

BASE FORECAST

Once an initial forecast has been agreed, it can be stored and locked for comparison with future performance on the project. The forecast may be updated at user-defined intervals, based on historical data together with work that remains to be carried out.

ENGINEERING INFORMATION

In addition to financial information, Candy also generates engineering information, such as total quantity of resources and total man-hours for the various project codes. This information is vital for the engineering staff to make decisions on site.

FORECASTING MADE SIMPLE

Once the unique Candy link is established between the bill of quantities and program, forecasting over the duration of the project is simple. A full analytical breakdown of the forecast can be easily and readily obtained. The bill of quantities and program will be updated on a monthly basis, which in-turn will automatically update the Costs & Allowables forecasting module.

BENEFITS AT A GLANCE

- Provides invaluable information for feasibility and progress monitoring of a construction project
- Assist in assessing the effect of changes to the project financing and help to focus on the important issues
- Produce graphical and numeric histograms and "s-curves" for resource, quantity, budget and revenue forecasts
- Provide source data for cashflow modelling and forecast costing
- Forecast and manage multi-currency requirements
- Forecast and manage manpower requirements

CASH FLOW

Candy Cash Flow models the financial requirements of a construction project so that the cash flow can be optimised, readily assessed and controlled.

PAYMENTS

The lags on payment of invoices to suppliers and subcontractors can be specified, together with predicted escalation on cost and value. Interest rates, retention rules, pre-payments and other factors can be specified to model the cash flow.

RECEIPTS

Valuation payments from the client can be normal certificates or a predetermined milestone payment plan can be used or certificates can be limited to preset monthly maximums.

NETT PRESENT VALUE (NPV)

The NPV of the cash flow on the contract is generated from the weekly cash flow calculations. This can be viewed either from the client or the contractor's perspective. In addition, weekly results are produced of cash flows and bank balances, together with monthly valuations and cost figures.

CURRENCIES AND EXCHANGE RATES

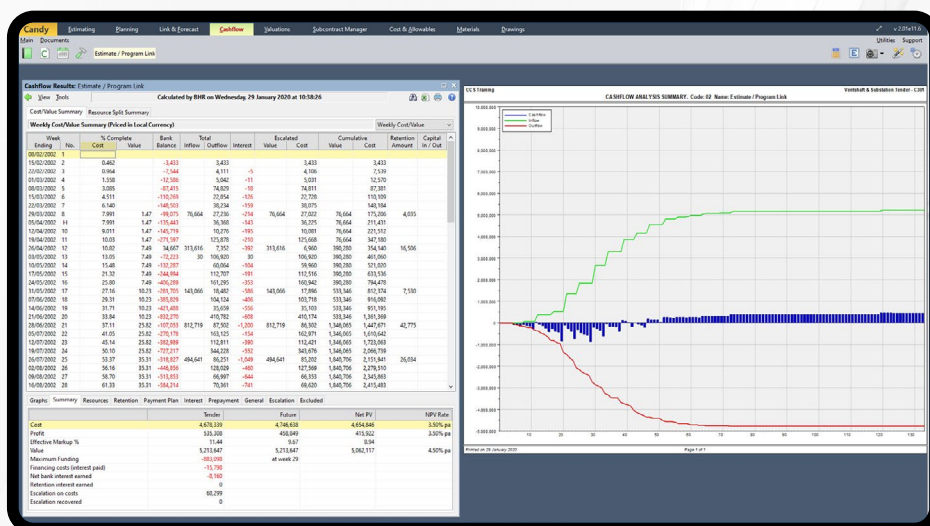
Like the Estimating module, the Cash Flow module handles foreign currencies and can accept data from Estimating in multiple currencies. The exchange rate between each currency and the pricing currency can be varied over time, giving the user the ability to examine the effects of currency fluctuations on a project.

INTEGRATION WITH THE BILL AND PROGRAM

The Cash Flow seamlessly imports data from the Bill of Quantities or from the Bill of Quantities/Program link. Alternatively data can be entered manually. This calculates a financial model detailing when payment of, inter alia labour, plant and material takes place (outflows) and the concurrent revenues/incomes (inflows) are received. By testing various models with different parameters and comparing the NPV results, the optimum tender strategy can be determined so as to maximise return on investment.

KEY FEATURES

- Create manually, from estimate or forecast
- Specify cashflow parameters such as days, weeks, months
- Incorporate payment lags, escalation, interest, NPV, advances and loans
- Main and subcontractor retention options
- Multi-currency and exchange rate modelling
- Combine multiple cashflows
- Financial modeling and feasibility of projects
- Weekly and monthly forecast Cashflow analysis and reporting



VALUATIONS cont.

MONTHLY VALUATIONS

Monthly applications for payment are produced by entering either a progress quantity or a percentage complete against progressed bill items. The progress quantity build up can be recorded using measurement sheets. The available progress quantities are Claimed, Paid and Actual, and a number of derived quantities, such as Quantity to Completion, are also available. Analytical pricing of variations Adding variation items to the original contract document is simple. They can either be priced using free-format analytical worksheets from the estimate and modified as necessary or built up from first principles. Alternatively, a split rate can be entered if the full breakdown is not required. All items can have both internal and external rates.

ENGINEERING INFORMATION

In addition to catering for financial control of the construction project the Valuations module provides essential engineering information as a by-product of the valuation process. Full analytic detail of the budgeted use of resources for any part of the project or code structure can be produced. This type of information is particularly useful when working in conjunction with a client on a Partnership or Open Book type project when the method of carrying out the work is a joint decision and all details are to be declared.

FEEDBACK TO ESTIMATING

Using Candy Valuations module initiates valuable interaction between the site commercial team and the estimating department. Accurate and regular feedback provides a competitive advantage to many enterprises involved in estimating and the management of construction projects.

BENEFITS AT A GLANCE

- Provides continuity between Estimating and the post-tender commercial control
- Tender information can be rapidly remodeled to reflect changes since tender submission
- Variation and re-measurement pricing and control
- Production, resource, manhours and wastage analysis and reporting for better control
- Dynamically integrates with BuildSmart Procurement

KEY FEATURES

- Immediate Use of Estimate Data
- Multiple and customisable document layouts
- Powerful filtering, sorting and grouping of data
- Comprehensive standard and customisable reports
- Value Engineering / Job Remodeling
- Interim payment claims
- Internal and external Valuation Quantities and variance analysis
- Variation Order management
- Measurement by Areas
- Dynamic link with QTO
- Dynamic link with Subcontract manager

“Candy has been successfully used in this project for post tender control and valuations. For us, the QS team, Candy is a very user friendly system and helped tremendously to manage the monthly valuations and numerous variations and generation of management reports. I would recommend the system to any company who wants better control of their projects.”

Mr. Dhana Madhavan - Senior Quantity Surveyor, Khansaheb Civil Engineering

SUBCONTRACT MANAGER

Candy's subcontract manager controls progress quantities and provides a rolling subcontract progress update. Candy supplies information on the subcontractor bill as well as other costs, claims, charges, on-site materials and variation orders.

Subcontract management is a vital operational process of project management and this system brings every element together to easily manage multiple subcontractors, maintaining their bills, assigning them specific subcontracts and other costs. Standard and customisable reports provide you with real time information and subcontract progress updates for a complete overview to easily manage your labour resource.

Candy provides construction management software for subcontractor management with packages controlling progress quantities and providing a rolling subcontract progress update. Candy supplies information on the subcontractor bill as well as other costs, claims, charges, on-site materials and variation orders.

BENEFITS AT A GLANCE

- Subcontracts already setup and priced in the Subcontract Adjudication system can be brought directly into the Subcontract Manager including rates from a chosen subcontractor
- Multiple subcontractors can be allocated to a bill item, each with his own quantity and rate
- Weekly, bi-weekly and/or monthly payment certificates using company specific Excel templates
- Upload bill for full integration with BuildSmart procurement to produce Subcontractor purchase orders
- Dynamic upload of Subcontractor reconciliations for approval and payment processing in BuildSmart

KEY FEATURES

- Dynamic link with Subcontract Adjudication
- Multiple Subcontractors Per bill item
- Subcontract bills linked to main BOQ
- Extras, Charges, MOS and Advanced payments control
- Subcontractor progress measures
- Subcontractor Certificates
- Comprehensive standard and customisable reports
- Subcontract liability reporting
- Integrated with BuildSmart Subcontractor payments

COST AND ALLOWABLE

Candy makes Earned Value Management (EVM) simple with its cost control capability, ensuring effective construction cost control management. Candy's EVM provides a series of curves and their derivatives used for the control and measurement of a project's performance. Earned Value forecasts and tracks Allowable and Cost against a Baseline budget.

Construction cost reporting is an on-going process with a skill-set requirement that includes accurate forecasting of project performance problems. The more effective this skill, the better the project outcome. Optimise your skill with our construction reporting module, which offers actual/allowable cost comparison and projected cost and time to completion data to produce accurate Earned Value Management (EVM) reporting. With flexible filter parameters to address your specific requirements as well as customisable document layouts, you can quickly assess and evaluate transparent data for quicker decisions.

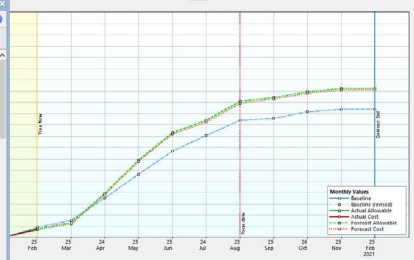
KEY FEATURES

- Multiple and customisable document layouts
- Powerful filtering, sorting and grouping of data
- Cost Rates and Cost Worksheets for cost to and at completion calculation
- Import cost and cost adjustments from various file formats
- To-Date, To- Completion and At- Completion project performance analysis
- Production, average rate and manhour comparison and analysis
- Fixed and re-measurable project control
- Comprehensive standard and customisable reports
- Generate Cost Reports

BENEFITS AT A GLANCE

- Real-time analytics, cost reporting and dashboarding for effective and powerful decision making
- Locational and/or activity and/or ledger Cost vs Budget to date
- Locational and/or activity and/or ledger Cost vs Budget to & at completion
- Quickly assess and evaluate the impact of Escalation and Variation Orders
- Comprehensive Earned Value Management and KPI measurement
- Integrates with BuildSmart for actual cost data

1.1 Cost & Allowable by period											
Cost	Task	Description	Allowable	To-date	Variance	Allowable	Cost	Variance	Allowable	Cost	Variance
100		Job Total	3,989,911	3,793,000	-196,911	31,119,853	31,081,185	-38,668	33,193,744	32,284,185	-909,559
200		Site Establishment									
201		Salaries									
201	0100	General Labour	345,814	1,272,000	-926,186	9,539,887	9,628,204	-88,317	9,885,701	10,950,384	-1,064,683
201	0110	Clear Site	20,867	22,000	-1,133	5,794	5,335	+459	75,161	27,335	-47,874
201	0120	Erection	324,947	1,250,000	-925,053	243,636	245,905	-2,270	968,372	1,495,955	-527,583
201	1101	Filling				894,683	903,610	-8,927	894,683	903,610	-8,927
201	1102	Concrete - Blinding				39,893	402,312	-362,419	39,893	402,312	-362,419
201	1103	Concrete - Foundations				1,235,213	1,249,765	-14,552	1,235,213	1,249,765	-14,552
201	1104	Concrete - Walls				308,392	312,461	-4,069	308,392	312,461	-4,069
201	2102	Concrete - Ground Slabs				312,010	315,980	-3,970	312,010	315,980	-3,970
201	2103	Vertical Formwork - Found				882,349	890,175	-7,826	882,349	890,175	-7,826
201	2105	Vertical Formwork - Walls				368,866	372,138	-3,272	368,866	372,138	-3,272
201	3101	Vertical Formwork - Beam				159,911	161,466	-1,555	159,911	161,466	-1,555
201	3102	Mesh				30,449	30,610	-161	30,449	30,610	-161
201	4100	High Tensile Bars				488,667	488,667	0	488,667	488,667	0
201	4101	Miscellaneous Metalwork				523,787	529,242	-5,455	523,787	529,242	-5,455
201	4300	Joinery				1,046,876	1,046,876	0	1,046,876	1,046,876	0
201	5300	Grounding				403,313	403,313	0	403,313	403,313	0
201	6201	Stormwater Drainage				200,960	200,960	0	200,960	200,960	0
201	6202	Manholes				343,583	346,999	-3,416	343,583	346,999	-3,416
201	6203	Ventilation System - Suppl				1,205	1,205	0	1,205	1,205	0
201	7101	Ventilation System - Maint				4,200	4,200	0	4,200	4,200	0
201	7201	Brickwork - Foundation				747,010	754,163	-7,153	747,010	754,163	-7,153
201		Brickwork - Superstructure				1,302,901	1,302,901	0	1,302,901	1,302,901	0
300		Dumsters				256,912	256,912	0	256,912	256,912	0
304		Concrete Plant Hire				819,460	819,460	0	819,460	819,460	0
305		Earthworks Plant Hire	1,285,061	355,000	930,061	2,672,502	2,672,502	0	3,960,658	3,960,658	988,061
306		Transport				2,198	2,198	0	2,198	2,198	0
307		Fuel	345,671	38,000	307,671	695,313	568,246	127,067	1,041,001	604,246	436,755
308		Sand				1,709,858	1,709,858	0	1,709,858	1,709,858	0
309		Stone				1,459,743	1,459,743	0	1,459,743	1,459,743	0
310		Cement				3,670,292	3,670,292	0	3,670,292	3,670,292	0





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